

# Round & Diamond Tube/Tip & Needle Diameter RL, RS, RLXT, RLXP

Inside diameter for Precision tube/tips ▶

RT VT 3	RT VT 5	RT VT 7	RT VT 9	RT VT 11	RT VT 14	RT VT 18
1.2mm	1.4mm	1.5mm	1.7mm	1.8mm	2.0mm	2.2mm

Locate the Diameter, Points and Type of your round needles below to see the needle configuration's diameter and the best tube/tip to pair with it.

Needle Configuration Diameter and Tube/Tip Pairing for Precision Needles ▼

DIAMETER 12 Determine your tube/tip for #12 needles .35 Diameter needles			
POINTS	TYPE	Approximate diameter of needle configuration	TUBE/TIP
01	RL	1.05 - 1.15mm	RT VT 3
03	RL	1.05 - 1.15mm	RT VT 3
03	RLXT RLXP	1.05 - 1.15mm	RT VT 3
04	RL RS	1.15 - 1.25mm	RT VT 5
05	RL RS	1.25 - 1.35mm	RT VT 5
05	RLXT RLXP	1.25 - 1.35mm	RT VT 5
07	RL RS	1.35 - 1.45mm	RT VT 7
07	RLXT RLXP	1.35 - 1.45mm	RT VT 7
08	RL RS	1.45 - 1.55mm	RT VT 9
09	RL RS	1.55 - 1.65mm	RT VT 9
09	RLXT RLXP	1.55 - 1.65mm	RT VT 9
11	RL RS	1.65 - 1.75mm	RT VT 11
14	RL RS	1.85 - 1.95mm	RT VT 14
18	RL RS	2.05 - 2.15mm	RT VT 18
42	RS	2.60 - 2.70mm	RT VT 42
100	RS	4.10 - 4.20mm	RT VT 100

DIAMETER 10 Determine your tube/tip for #10 needles .30 Diameter needles			
POINTS	TYPE	Approximate diameter of needle configuration	TUBE/TIP
01	RL	.85 - .90mm	RT VT 3
03	RL	.85 - .90mm	RT VT 3
04	RL	.99 - 1.04mm	RT VT 3
05	RL RS	1.08 - 1.13mm	RT VT 3
07	RL RS	1.15 - 1.20mm	RT VT 5
08	RL RS	1.22 - 1.27mm	RT VT 5
09	RL RS	1.30 - 1.35mm	RT VT 5
11	RL RS	1.40 - 1.45mm	RT VT 7
14	RL RS	1.47 - 1.52mm	RT VT 9
18	RL RS	1.75 - 1.80mm	RT VT 14

DIAMETER 8 Determine your tube/tip for #8 needles .25 Diameter needles			
POINTS	TYPE	Approximate diameter of needle configuration	TUBE/TIP
01	RL	.65 - .69mm	RT VT 3
03	RL	.65 - .69mm	RT VT 3
04	RL	.72 - .76mm	RT VT 3
05	RL RS	.79 - .83mm	RT VT 3
07	RL RS	.87 - .91mm	RT VT 3
08	RL RS	.93 - .97mm	RT VT 3
09	RL RS	1.00 - 1.04mm	RT VT 3
11	RL RS	1.22 - 1.26mm	RT VT 5
14	RL RS	1.39 - 1.43mm	RT VT 7
18	RL RS	1.61 - 1.65mm	RT VT 9

# NEEDLE AND TIP COMPATIBILITY

Pair your needles with tube sets or tips by matching the symbols on our packages, or use this chart to determine the diameter of your Precision needle or tube/tip.

- ◆ VT = DIAMOND TIP
- RT = ROUND TIP
- FT = FLAT TIP



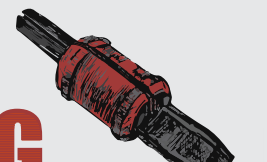
**CLASSIC**  
Utilitarian, economical tubes with slim beehive grips for pen-like control




**VICTORY**  
Sturdy, molded-plastic tubes & grips with no-slip, relaxed-grip silicone bands



**VISION**  
Clear tube & tip for total visibility & wide, air-cushioned rubber comfort grips



**SUPER MAG**  
Wide, open-top tubes & channeled grips for max ink flow & needle configurations



**PREsynergy**  
Interchangeable tips and grips for ultimate customization.

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# Flat Tube/Tip & Needle Width F, M1, M1C, M2

Approximate width of needle configuration ▶

FT 5	FT 7	FT 9	FT 11	FT 13
1.80 - 2.20mm	2.50 - 2.70mm	3.20 - 3.40mm	3.90 - 4.2mm	4.60 - 5.0mm

FT 15	FT 17	FT 19	FT 21	FT 23	FT 25	FT 29	FT 35	FT 39	FT 49
5.30 - 5.6mm	6.00 - 6.20	6.70 - 7.05	7.40 - 7.75	8.10 - 8.45	8.80 - 9.15	10.20 - 10.55mm	12.30 - 12.65	13.70 - 14.05	17.20 - 17.55

Locate the Diameter, Points and Type of your flat needles below to see the needle configuration's width and the best tube/tip to pair with it.

Needle Configuration Width and Tube/Tip Pairing for Precision Needles ▼

DIAMETER 12 Determine your tube/tip for #12 needles .35 Diameter needles			
POINTS	TYPE	Approximate width of needle configuration	TUBE/TIP
04	F	1.40 - 1.55mm	FT 5
05	M2	1.05 - 1.20mm	FT 5
05	F M1 M1C	1.75 - 1.90mm	FT 5
06	F	2.10 - 2.25mm	FT 7
07	m2	1.40 - 1.55mm	FT 5
07	F M1 M1C	2.45 - 2.60mm	FT 7
08	F	2.80 - 2.95mm	FT 9
09	M2	1.75 - 1.90mm	FT 5
09	F M1 M1C	3.15 - 3.30mm	FT 9
11	M2	2.10 - 2.25mm	FT 7
11	M1 M1C	3.90 - 4.05mm	FT 11
13	M2	2.45 - 2.60mm	FT 7
13	M1 M1C	4.60 - 4.80mm	FT 13
15	M2	2.80 - 2.95mm	FT 9
15	M1 M1C	5.30 - 5.50mm	FT 15
17	M2	3.15 - 3.30mm	FT 9
17	M1 M1C	6.00 - 6.20mm	FT 17
19	M1 M1C	6.70 - 6.90mm	FT 19
21	M2	3.90 - 4.05mm	FT 11
21	M1 M1C	7.40 - 7.60mm	FT 21
23	M1 M1C	8.10 - 8.30mm	FT 23
29	M2	5.30 - 5.50mm	FT 15
35	M1 M1C	12.30 - 12.50mm	FT 35
39	M1 M1C	13.70 - 13.90mm	FT 39
49	M1 M1C	17.20 - 17.40mm	FT 49

DIAMETER 10 Determine your tube/tip for #10 needles .30 Diameter needles			
POINTS	TYPE	Approximate width of needle configuration	TUBE/TIP
04	F	1.20 - 1.33mm	FT 5
05	F M1 M1C	1.50 - 1.63mm	FT 5
06	F	1.80 - 1.93mm	FT 5
07	F M1 M1C	2.10 - 2.23mm	FT 7
08	F	2.40 - 2.53mm	FT 7
09	M2	1.50 - 1.63mm	FT 5
09	F M1 M1C	2.70 - 2.83mm	FT 9
11	M1 M1C	3.30 - 3.43mm	FT 11
13	M2	2.10 - 2.23mm	FT 7
13	M1 M1C	3.90 - 4.03mm	FT 11
15	M1 M1C	4.50 - 4.63mm	FT 13
17	M2	2.70 - 2.83mm	FT 9
17	M1C	5.10 - 5.23mm	FT 15
21	M2	3.30 - 3.43mm	FT 11
25	M2	3.90 - 4.03mm	FT 11
29	M2	4.50 - 4.63mm	FT 13

DIAMETER 8 Determine your tube/tip for #8 needles .25 Diameter needles			
POINTS	TYPE	Approximate width of needle configuration	TUBE/TIP
4	F	1.00 - 1.11mm	FT 5
5	F M1 M1C	1.25 - 1.36mm	FT 5
6	F	1.50 - 1.61mm	FT 5
7	F	1.75 - 1.86mm	FT 5
7	M1C	1.75 - 1.86mm	FT 5
8	F	2.00 - 2.11mm	FT 5
9	M2	1.25 - 1.36mm	FT 5
9	F M1 M1C	2.25 - 2.36mm	FT 7
11	M1 M1C	2.75 - 2.86mm	FT 9
13	M2	1.75 - 1.86mm	FT 5
13	M1 M1C	3.25 - 3.36mm	FT 9
15	M1 M1C	3.75 - 3.86mm	FT 11
17	M2	2.25 - 2.36mm	FT 7
17	M1 M1C	4.25 - 4.36mm	FT 13
21	M2	2.75 - 2.86mm	FT 9
25	M2	3.25 - 3.36mm	FT 9
29	M2	3.75 - 3.86mm	FT 11