

Needle Tip Styles



a

Needle Tip "a"

This tip is designed for optimum penetration of the septa and prevents septa coring. The 17° bevel is the proven standard. In addition our electro tapered tip minimizes the necessary piercing force and diameter of the injection channel.



b

Needle Tip "b"

This tip has a 90° bevel for precise pipetting. This design releases drops completely, for maximum reproducibility. It is widely used for HPLC sample injection.



c

Needle Tip "c"

This tip has been specially designed for autosamplers in routine applications. The electro tapered tip and the polished 90° square end eliminate burrs. It is ideal for PTFE laminated seals and regular septas.



d

Needle Tip "d"

Tip "d" is equipped with a side opening for dispensing and filling. This design avoids plugging and minimizes septum damage. It is ideal for thicker septa, recommended for headspace analysis.

Syringe Needles

1. Removable Needles for ILS Syringes

O.D. mm	Length mm	Tip Style	Tapered	Volume Pack	Volume				
					5 µl	10 µl	25 µl - 100 µl	250 µl - 10.0 ml	
0.47	42	a	yes	3	2865308	2865408	-	-	
0.47	42	c	no	3	2834307	2834407	-	-	
0.47	51	a	yes	3	2832301	2832401	-	-	
0.47	51	b	no	3	2832302	2832402	-	-	
0.47	51	c	yes	3	2832303	2832403	-	-	
0.47	51	d	no	2	2832304	2832404	-	-	
0.55	51	a	yes	3	-	-	2831013	2841013	
0.55	51	b	no	3	-	-	2831014	2841014	
0.55	51	d	no	2	-	-	2831015	2841015	
0.64/0.47	42	c	yes	3	2834308	2834408	-	-	
0.64	42	c	no	3	2834309	2834409	-	-	
0.72	51	a	yes	3	-	-	2832501	2832601	
0.72	51	c	yes	3	-	-	2832503	2832603	
0.72	51	d	no	2	-	-	2832504	2832604	
0.90	51	a	no	3	-	-	-	2831023	
1.10	51	a	no	3	-	-	-	2831027	
2.00	51	a	no	2	-	-	-	2831029	
HP 7670 - 7672									
0.47	51	a	yes	3	2860307	2860407	-	-	
Waters									
0.50	50	b	no	3	2832306	2832406	2832506	2842606	
Valco VISF-1									
0.72	19	b	no	3	2833305	2833405	-	2833505	
Rheodyne									
0.72	51	b	no	3	2831305	2831405	2831505	2832602	
Removable needles for Hamilton syringes									
0.50	50	b	no	3	-	-	21080426	-	
0.47	51	a	yes	3	-	-	21775802	-	
0.72	51	a	yes	3	-	-	21777003	21777904	
0.72	51	b	no	3	-	-	21777001	21777901	

We can manufacture needles to your specifications.

Please ask for a quotation. Indicate length, diameter and type!

Syringe Needles

2. NLL Needles with Metal Luer-Screw

Length: 51 mm
 Needles: CrNi 1.4301 (AISI SS 304)
 Luer: Brass, Nickel plated



Gauge	O.D. (mm)	I.D. (mm)	Tip Style a 3 Pack	Tip Style b 3 Pack	Tip Style d 2 Pack
33	0.20	0.11	2840020	2842020	-
32	0.25	0.11	2840025	2842025	-
30	0.30	0.15	2840030	2842030	-
29	0.35	0.15	2840035	2842035	-
27	0.40	0.20	2840040	2842040	-
26	0.45	0.25	2840045	2842045	-
26s	0.47	0.13	2840047	2842047	-
25	0.50	0.28	2840050	2842050	2843050
24	0.55	0.32	2840055	2842055	2843055
23	0.65	0.35	2840065	2842065	2843065
22	0.72	0.41	2840070	2842070	2843070
22s	0.72	0.20	2840072	2842072	-
21	0.80	0.50	2840080	2842080	2843080
20	0.90	0.60	2840090	2842090	2843090
	1.00	0.68	2840100	2842100	2843100
19	1.10	0.80	2840110	2842110	2843110
18	1.30	0.90	2840130	2842130	2843130
17	1.50	1.10	2840150	2842150	2843150
16	1.70	1.20	2840170	2842170	2843170
15	1.80	1.40	2840180	2842180	2843180
	2.00	1.26	2840200	2842200	2843200
13	2.40	1.90	2840240	2842240	2843240
12	2.80	2.20	2840280	2842280	2843280
	3.00	2.06	2840302	2842302	2843302
11	3.00	2.40	2840304	2842304	2843304
10	3.40	2.70	2840340	2842340	2843340

We can manufacture needles to your specifications.
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Syringe Needles

3. KNLL Needles with Plastic Luer-Screw

Length: 51 mm
 Needles: CrNi 1.4301 (AISI SS 304)
 Luer: Polyvinylidenfluorid (PVDF)



Gauge	O.D. (mm)	I.D. (mm)	Tip Style a 3 Pack	Tip Style b 3 Pack	Tip Style d 2 Pack
33	0.20	0.11	2846020	2849020	-
32	0.25	0.11	2846025	2849025	-
30	0.30	0.15	2846030	2849030	-
29	0.35	0.15	2846035	2849035	-
27	0.40	0.20	2846040	2849040	-
26	0.45	0.25	2846045	2849045	-
26s	0.47	0.13	2846047	2849047	-
25	0.50	0.28	2846050	2849050	2844050
24	0.55	0.32	2846055	2849055	2844055
23	0.65	0.35	2846065	2849065	2844065
22	0.72	0.41	2846070	2849070	2844070
22s	0.72	0.20	2846072	2849072	-
21	0.80	0.50	2846080	2849080	2844080
20	0.90	0.60	2846090	2849090	2844090
	1.00	0.68	2846100	2849100	2844100
19	1.10	0.80	2846110	2849110	2844110
18	1.30	0.90	2846130	2849130	2844130
17	1.50	1.10	2846150	2849150	2844150
16	1.70	1.20	2846170	2849170	2844170
15	1.80	1.40	2846180	2849180	2844180
	2.00	1.26	2846200	2849200	2844200
13	2.40	1.90	2846240	2849240	2844240
12	2.80	2.20	2846280	2849280	2844280
	3.00	2.06	2846302	2849302	2844302
11	3.00	2.40	2846304	2849304	2844304
10	3.40	2.70	2846340	2849340	2844340

We can manufacture needles to your specifications.
 Please ask for a quotation. Indicate length, diameter and type!