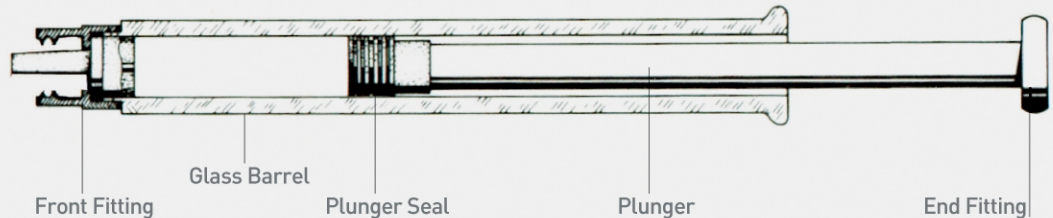


MICROSYRINGES

Made in Germany

Syringe Guide

01 Front Fitting



- FN (Fixed Needles) : Barrel에 니들이 고정되어 있는 형태
- RN (Removable Needles) : Barrel과 니들이 분리되어 있는 형태로서 니들만 교체하여 사용 가능하여 경제적임
- TLL, PTFE - Luer - Lock : 니들 이외에 다양한 connector를 연결하여 폭넓은 응용이 가능
- Gastight Syringe : Plunger에 PTFE-Seal 처리하여 가스 주입시에도 시료의 손실없이 주입 가능한 시린지
시료가 Gas일 경우 반드시 Gastight syringe 사용 추천하며, 또는 Push Button Valve 타입 추천
- LT, Luer-Tip : 니들과 시린지가 분리되는 형태. Male Luer형태

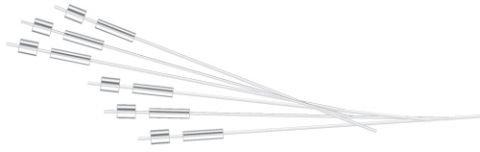
02 Needle Tip Style



- Needle Tip "a" : GC 주입용, Tip 끝부분이 날카로워서 두꺼운 Septa를 관통하기에 적합
- Needle Tip "b" : HPLC 샘플 주입과 시료 피펫팅에 적합
- Needle Tip "c" : 오토샘플러 사용을 위해 고안된 특별한 시린지 및 PTFE가 처리된 Seal이나 일반적인 Septa 을 관통하기에 이상적
- Needle Tip "d" : 니들 앞부분에 Side Opening Port를 가지고 있어 Septa의 손상을 최소화하여, 두꺼운 Septa를 관통하거나 Headspace analysis에 적합

Needles

01 Removable Needles



1) for ILS Syringes

O.D. mm	Length mm	Tip Style	Tapered	Volume Pack	5ul	10ul	25ul~100ul	250ul~10.0ml
0.47	42	a	yes	3	2865308	2865408		
0.47	51	a	yes	3	2832301	2832401		
0.47	51	b	no	3	2832302	2832402		
0.55	51	a	yes	3			2831013	2841013
0.55	51	b	no	3			2831014	2841014
0.72	51	a	yes	3			2832501	2832601
2.00	51	a	no	2				2831029

2) for Removable needles for Hamilton syringes

O.D. mm	Length mm	Tip Style	Tapered	Volume Pack	5ul	10ul	25ul~100ul	250ul~10.0ml
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

02 NLL Needles with Metal Luer-Screw



Gauge	O.D. mm	I.D. mm	Tip Style a 3 Pack	Tip Style b 3 Pack
26	0.45	0.25	2840045	2842045
26s	0.47	0.13	2840047	2842047
25	0.50	0.28	2840050	2842050
23	0.65	0.35	2840065	2842065

Gauge	O.D. mm	I.D. mm	Tip Style a 3 Pack	Tip Style b 3 Pack
22	0.72	0.41	2840070	2842070
22s	0.72	0.20	2840072	2842072
21	0.80	0.50	2840080	2842080
20	0.90	0.60	2840090	2842090

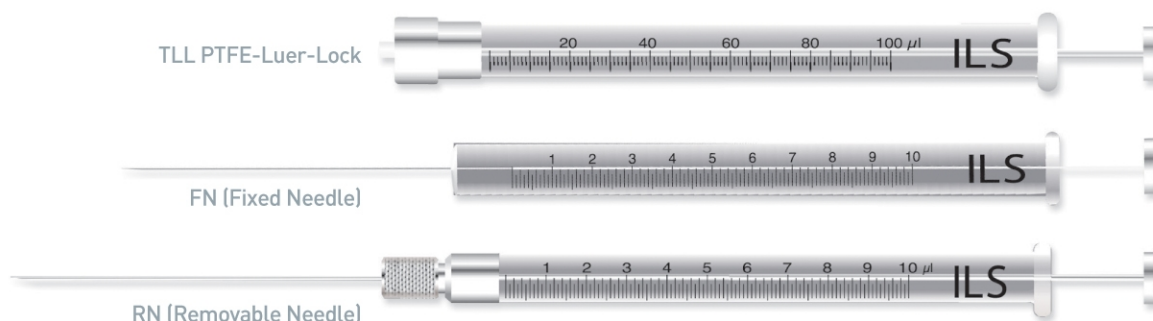
03 KNLL Needles with Plastic Luer-Screw



Gauge	O.D. mm	I.D. mm	Tip Style a 3 Pack	Tip Style b 3 Pack
26	0.45	0.25	2846045	2849045
26s	0.47	0.13	2846047	2849047
25	0.50	0.28	2846050	2849050
23	0.65	0.35	2846065	2849065

Gauge	O.D. mm	I.D. mm	Tip Style a 3 Pack	Tip Style b 3 Pack
22	0.72	0.41	2846070	2849070
22s	0.72	0.20	2846072	2849072
21	0.80	0.50	2846080	2849080
20	0.90	0.60	2846090	2849090

Syringes



01 Dosage of Liquids

5ul - 500ul

Plunger : Stainless steel

Glass Barrel : Borosilicate 3.3

Precision : < ±1% of the volume

Main Use : Sample dosage for gas chromatography / HPLC-Valves
Autosamplers

Volume	5ul	10ul	25ul	50ul	100ul	250ul	500ul
FN (Tip Style:b)	2100302	2100402	2100502	2100602	2100702	2100802	2100902
RN (Tip Style:b)	2100306	2100406	2100506	2100606	2100706	2100806	2100906
TLL PTFE-Luer-Lock				2100611	2100711	2100811	2100911

02 Dosage of Gas and Liquids

5ul - 100ml

Plunger : Stainless steel with PTFE-seal (Gastight)

Glass Barrel : Borosilicate 3.3

Precision : < ±1% of the volume

Main Use : Sample dosage for gas chromatography / HPLC-Valves
Autosamplers / Dosage of aggressive fluids

Volume	100ul	500ul	1.0ml	5.0ml	10.0ml	50.0ml	100.0ml
FN (Tip Style:a)	2600701	2600901	2600000	2600040	2600060		
RN (Tip Style:a)	2600705	2600905	2600005	2600045	2600065		
TLL PTFE-Luer-Lock	2607709	2607909	2607011	2607051	2607071	2607101	2607121

Syringes

03 HPLC Syringes

5ul - 1.0ml

Plunger : Stainless Steel Plunger with PTFE-seal

Glass Barrel : Borosilicate 3.3

Precision : < ± 1% of the volume

Main Use : HPLC-Valves

1) Most Common Valves*

Volume	5ul	10ul	25ul	50ul	100ul	250ul	500ul	1.0ml
FN (Tip Style:b)	2601302	2601402	2601502	2601602	2601702	2601802	2601902	2601001
RN (Tip Style:b)	2601306	2601406	2601506	2601606	2601706	2601806	2601906	2601002
TLL PTFE-Luer-Lock				2601609	2601709	2601809	2601909	2601003

Most Common valves* : Rheodyne, Varian, Shimadzu, Agilent, Hewlett Packard, Beckmann, Valco

2) Waters Valves*

Volume	10ul	25ul	50ul	100ul	250ul	500ul	1.0ml	2.5ml
FN (Tip Style:b)	2602402	2602502	2602602	2602702	2602802	2602902	2602006	2602026
RN (Tip Style:b)	2602406	2602506	2602606	2602706	2602806	2602906	2602007	
TLL PTFE-Luer-Lock			2602609	2602709	2602809	2602909	2602003	

04 HPLC Syringes for Autosampler

10ul - 5.0ml

Plunger : Special Stainless steel Plunger with PTFE-seal

Glass Barrel : Borosilicate 3.3

Precision : < ± 1% of the volume

Main Use : HPLC-Valves

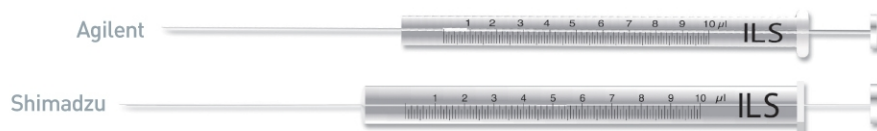
Agilent (HP) 1090A , Hitachi ,Waters, LEAP



Volume	25ul	100ul	250ul	1.0ml
Agilent	2606500		2606800	
Hitachi		2611712		2611012
Waters	2663514		2663814	
LEAP	2620517	2620702	2620805	2620010

Syringes

05 Syringes for GC Autosampler



5ul - 10ul

Plunger : Special Stainless steel
Glass Barrel : Borosilicate 3.3
Precision : < $\pm 1\%$ of the volume
Main Use : GC Autosampler

1) Agilent (HP) 7670 / 7671 / 7672

Volume	5ul	10ul
FN (Tip Style : a)	2100301	2100401
RN (Tip Style : a)	2100305	2100405

2) Shimadzu AOC 14 / 17 / 20

Volume	5ul	10ul
FN (Tip Style : a)	2105301	2105401
RN (Tip Style : a)	2105307	2105407

06 Syringes for Automatic Liquid Handling

12.5ul - 12.5ml



Plunger : PTFE-seal
Glass Barrel : Borosilicate 3.3
Precision : < $\pm 1\%$ of the volume
Stroke : 30 mm
Main Use : Automatic Liquid Handling

Modified PTFE -Seals for Buffers

Volume	H-PD	XE	XP
100ul	2666715		2647717
500ul	2666915	2646927	2647917
1.0ml	2666014	2646027	2647017
2.5ml	2666035	2646047	2647037
5.0ml	2666055	2646067	2647077

Replacements for Hamilton

Hamilton Part No.에 상응하는 ILS Part No.를 선택해 주세요.

Hamilton		ILS		Hamilton		ILS	
P / N	description	P / N	description	P / N	description	P / N	description
80300	701N(26s/51/2)	2100401	10N/F/0.47(26s)/a/51	80900	1705RNCP(22s/19/3)	2603607	50H/R/0.72(22s)/b/19
80365	701NR - Rheodyne	2100402	10N/F/0.72/b/51R	80938	1705RNW	2602606	50H/R/0.50/b/50W
80400	702N(22s/51/2)	2100501	25N/F/0.72(22s)/a/51	80939	1705N(22s/51/5)	2600604	50H/R/0.72(22)/d/51
80419	702SN(22/51/3)	2100502	25N/F/0.72(22s)/b/51	80962	1705CX	2606615	50H/CX
80500	705N(22s/51/2)	2100601	50N/F/0.72(22s)/a/51	80965	1705RNR - Rheodyne	2601606	50H/R/0.72(22s)/b/51R
80501	705LT	2100613	50H/TLT	80975	1705N(22s/51/3)	2601602	50H/F/0.72(22s)/b/51R
80520	705TLL	2100611	50N/TLL	81000	1710N	2600701	100H/F/0.72(22s)/a/51
80530	705RN(22s/51/2)	2100605	50N/R/0.72(22s)/a/51	81001	1710LT	2600713	100H/TLT
80539	705N(22s/51/5)	2100604	50N/F/0.72(22)/d/51	81020	1710TLL	2607709	100H/TLL
80565	705NR(22s/51/3)	2100602	50N/F/0.72(22s)/b/51Ra	81030	1710RN(22s/51/2)	2600705	100H/R/0.72(22s)/a/51
80600	710N	2100701	100N/F/0.72(22s)/a/51	81031	1710RNCP(22s/19/3)	2603707	100H/R/0.72(22s)/b/19
80601	710LT	2100713	100H/TLT	81038	1710RNW	2602706	100H/R/0.50/b/50W
80620	710TLL	2100711	100N/TLL	81039	1710N(22/51/5)	2600704	100H/F/0.72(22)/d/51
80630	710RN	2100705	100N/R/0.72(22s)/a/51	81060	1710C	2606714	100H/C
80639	710N(22s/51/5)	2100704	100N/F/0.72(22)/d/51	81065	1710RNR - Rheodyne	2601706	100H/R/0.72(22s)/b/51R
80665	710NR(22s/51/3)	2100702	100N/F/0.72(22s)/b/51	81075	1710N(22s/b/51)	2601702	100H/F/0.72(22s)/b/51R
80700	725N(22s/51/2)	2100801	250N/F/0.72(22)/a/51	81100	1725N(22s/51/2)	2600801	250H/F/0.72(22)/a/51
80701	725LT	2100813	250H/TLT	81101	1725LT	2600813	250H/TLT
80720	725TLL	2100811	250N/TLL	81120	1725TLL	2607809	250H/TLL
80730	725RN(22s/51/2)	2100805	250N/R/0.72(22)/a/51	81122	1725TLLX	2607817	250H/TLL-X
80739	725N(22s/51/5)	2100804	250N/F/0.72(22)/d/51	81130	1725RN	2600805	250H/R/0.72(22)/a/51
80765	725SNR - Rheodyne	2100802	250N/F/0.72(22)/b/51R	81131	1725RNCP(22s/19/3)	2603807	250H/R/0.72(22)/b/19
80800	750N	2100901	500N/F/0.72(22)/a/51	81138	1725RNW	2602806	250H/R/0.50/b/50W
80801	750LT	2100913	500H/TLT	81139	1725N(22s/51/5)	2600804	250H/F/0.72(22)/d/51
80820	750TLL	2100911	500N/TLL	81160	1725C	2606814	260H/C
80830	750RN(22s/51/2)	2100905	500N/R/0.72(22)/a/51	81162	1725CX	2606815	250uLCX
80839	750N(22/51/5)	2100904	500N/F/0.72(22)/d/51	81165	1725RNR - Rheodyne	2601806	250H/R/0.72(22)/b/51R
80865	750SNR - Rheodyne	2100902	500N/F/0.72(22)/b/51R	81175	1725N(22s/51/3)	2601802	250H/F/0.72(22)/b/51R
80900	1705N(22s/51/2)	2100601	50H/F/0.72(22s)/a/51	81201	1750LT	26009013	500H/TLT
80901	1705LT	2100613	50H/TLT	81220	1750TLL	2607909	500H/TLL
80920	1705TLL	2100609	50H/TLL	81230	1750RN	2600905	250H/R/0.72(22)/a/51
80930	1705RN	2100605	50H/R/0.72(22s)/a/51	81620	1010TLL	2607071	10mlH/TLL



서울본사 서울시 광진구 광장동 114 CRESCO B/D 308호 Tel 02. 3437. 5163 Fax 02. 3437. 5165

대전지사 대전시 유성구 봉명동 신한진오피스텔 716호 Tel 042. 824. 5167 Fax 042. 824. 5169

www.revodix.co.kr E-mail sales@revodix.co.kr