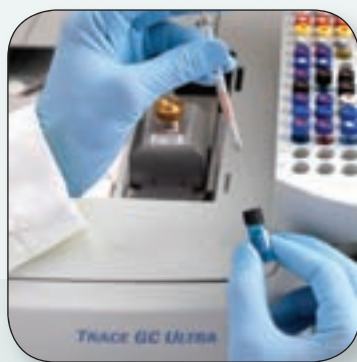


GC Accessories

Gas Management & Filtration	287
Injection Port Septa	293
Injection Port Liners	294
Capillary Accessories	301
GC Equipment	305
GC Syringes	307



GC Accessories and Equipment

Choose Thermo Scientific accessories to enhance and optimize the performance of your GC and GCMS instruments. We offer a wide array of products including fittings, septa, gas filters, liners, syringes and equipment.

Click-On Inline Filters

Easy-to-use format eliminates contamination



- ▶ Pure gas output 99.9999% or 6.0 grade
- ▶ No carrier gas line contamination during filter change
- ▶ Easy and fast replacement without the need for tools
- ▶ No risk of overtightening fittings
- ▶ Reuseable end fittings reduce cost of clean gas: remain installed during filter replacement
- ▶ TUEV approved
- ▶ Maximum pressure 11 bar (160 psi)
- ▶ Maximum flow 25L/min.
- ▶ Combi filter removes oxygen and moisture, or moisture and hydrocarbons
- ▶ Triple filter removes oxygen, moisture and hydrocarbons

Click-On Inline Filters	For Gas	Indicator Change	Capacity
Moisture	Inert Carrier, Air, H ₂		21g H ₂ O
Oxygen	Inert Carrier		3L O ₂
Hydrocarbon	Inert Carrier, Air, H ₂		36g n-butane
Indicating Triple	Inert Carrier	Red to White Purple to Green	3g H ₂ O, 400mL O ₂ , 5g HCs
Triple	Inert Carrier		6g H ₂ O, 1L O ₂ , 12g HCs
Combi	Inert Carrier		10g H ₂ O, 18g HCs

Click-On Inline Filters

Type	Cat No.	Quantity
Moisture Filter	60180-801	1 Each
Oxygen Filter	60180-802	1 Each
Hydrocarbon Filter	60180-803	1 Each
Combi (O ₂ , H ₂ O)	60180-804	1 Each
Triple (H ₂ O, O ₂ , HCs)	60180-805	1 Each
Triple (H ₂ O, O ₂ , HCs), He Preconditioned for GCMS	60180-806	1 Each
Indicating Triple (O ₂ , H ₂ O, HCs), He Preconditioned for GCMS	60180-808	1 Each
Combi (Moisture and Hydrocarbons)	60180-843	1 Each
End fitting, Brass, 0.125 in.	60180-809	2 Pack
End fitting, Steel, 0.125 in.	60180-810	2 Pack
End fitting, Brass, 0.25 in.	60180-811	2 Pack
End fitting, Steel, 0.25 in.	60180-812	2 Pack
Double-ended Connector to Connect Filter to Indicator	60180-813	1 Each
Replacement-O-rings	60180-833	1 Each
Wall mounting clamp	60180-834	4 Pack

Super Clean Cartridge Filters

Replace easily without tools



- ▶ 99.9999% pure gas (or 6.0 grade) output
- ▶ No carrier gas line contamination during cartridge change
- ▶ Cost effective
- ▶ TUEV approved
- ▶ Max. pressure 11 bar (160 psi)
- ▶ Max. flow 7L/min.

Cartridge Type	For Gas	Indicator Change	Capacity
Moisture	Inert Carrier, Air, H ₂	Gray to White	7.2g H ₂ O
Oxygen	Inert Carrier	Green to Gray	1L O ₂
Hydrocarbon	Inert Carrier, Air, H ₂		12g n-butane
Combi	Inert Carrier	Purple to Green	1.8g H ₂ O, 6g HCs
Triple	Inert Carrier	Orange to Gray Purple to Green	1.8g H ₂ O, 500mL O ₂ , 4g HCs

Super Clean Cartridge Filters

Description	Base Included	Cat. No.	Quantity
Moisture Cartridge Filter with Indicator	No	60180-819	1 Each
Oxygen Cartridge Filter with Indicator	No	60180-820	1 Each
Hydrocarbon Cartridge Filter	No	60180-821	1 Each
3 Cartridge Pack (1 x Triple + 2 x HC/H ₂ O Combi Filters)	No	60180-822	1 Each
4 Cartridge Pack (1 x O ₂ , 1 x H ₂ O + 2 x HC Filters)	No	60180-823	1 Each
Indicating Triple (H ₂ O, O ₂ , HCs)	No	60180-824	1 Each
Indicating Triple (H ₂ O, O ₂ , HCs), He Preconditioned for GCMS	No	60180-825	1 Each
Indicating Combi (HC/H ₂ O)	No	60180-826	1 Each
4 Cartridge Kit (1 x O ₂ , 1 x H ₂ O + 2 x HC Filters)	Yes	60180-827	1 Each
3 Cartridge Kit (1 x Triple + 2 x HC/H ₂ O Combi Filters)	Yes	60180-828	1 Each
1 Cartridge Kit (1 x Indicating Triple), He Preconditioned for GCMS	Yes	60180-829	1 Each
1 Cartridge Kit (1 x Triple), He Preconditioned for GCMS	Yes	60180-830	1 Each
Twin HC Filters For High-Flow Base Plate (LC/MS); No Indicator	No	60180-831	1 Each
High Flow Twin H ₂ O Filters (Air Generators)	No	60180-832	1 Each
High Flow Cartridge Pack (2 x HC), No indicator, for LCMS	No	60180-839	1 Each
High Flow Cartridge Pack (2 x HC), with indicator, for LCMS	No	60180-840	1 Each
High Flow Cartridge Pack (2 x H ₂ O), with indicator, for LCMS	No	60180-841	1 Each

Super Clean Cartridge Filter Baseplates

One-time installation procedure



- ▶ Can be configured to the individual user requirements
- ▶ Needle valves ensure gas line is not contaminated during cartridge change

Filters are not included.

Type	For Use with	For Gas
Single Base	Triple Filter	Carrier Gas Only
Dual Base	2 x Combi Filter	Air and Fuel Gas
Triple Base	Triple and 2 x Combi Filter	Carrier, Make-Up, and Fuel Gas
Four-position Base	Moisture, Oxygen, 2 x Hydrocarbon	High capacity carrier, fuel, make up
Two-position, High-flow Base	N ₂ in LC/MS, H ₂ O in H ₂ /air generators	Carrier, make up and fuel

Super Clean Cartridge Filter Baseplates/Manifolds

Type	Cat. No.	Quantity
Single Base	60180-814	1 Each
Dual Base	60180-815	1 Each
Triple Base	60180-817	1 Each
Two-position, High-flow Base	60180-816	1 Each
Four-position Base	60180-818	1 Each
O-rings for base plates	60180-837	1 Each
Flush Cap	60180-838	1 Each

High Purity Single Stage Brass Gas Regulators



- ▶ For non-corrosive analytical and process applications
- ▶ Includes a built-in Smart Purifier Base and Cartridge ensuring 99.99999% gas purity
- ▶ Specially designed, convoluted, stainless steel diaphragm provides good regulating performance and maximum purity integrity without the need for a soft seal
- ▶ Capable of withstanding an internal vacuum
- ▶ All regulators supplied with 1/8 in. stainless steel output adaptor
- ▶ Built in check valve allows for cylinder change without contaminating the gas line

High Purity Single Stage Brass Gas Regulators

Inlet	Filter	Cat. No.	Quantity
CGA 580	Triple Filter	60180-901	1 Each
DIN 6	Triple Filter	60180-903	1 Each
CGA 350	Triple Filter	60180-905	1 Each
DIN 1	Triple Filter	60180-907	1 Each
CGA 320	Triple Filter	60180-909	1 Each
CGA 580	Combi Filter	60180-915	1 Each
DIN 6	Combi Filter	60180-917	1 Each
CGA 350	Combi Filter	60180-919	1 Each
DIN 1	Combi Filter	60180-921	1 Each
CGA 320	Combi Filter	60180-923	1 Each
CGA 590	Combi Filter	60180-925	1 Each
DIN 13	Combi Filter	60180-927	1 Each

Specifications

Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0 to 100
Flow Capacity	Cv=0.095
Ambient Operating Temperature	-40°F to +165°F
Designed Leak Rate	2 x10 ⁶ ccs (helium)
Weight	4.6 lbs
Ports (5)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" Compression
Decay Inlet Characteristic	0.78/100 psi
Materials	
Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	316 Stainless Steel
Gauges	2 1/2" Nickel-Plated Brass
Filter	316 Stainless Steel
Outlet Valve	Nickel-Plated Brass
Trim	Nickel-Plated Brass

High Purity Two Stage Brass Gas Regulators



- ▶ For non-corrosive analytical and process applications
- ▶ Includes a built-in Smart Purifier Base and Cartridge ensuring 99.99999% gas purity
- ▶ Specially designed, convoluted, stainless steel diaphragm provides good-regulating performance and maximum purity integrity without the need for a soft seal
- ▶ Capable of withstanding an internal vacuum
- ▶ All regulators supplied with 1/8 in. stainless steel output adaptor
- ▶ Built in check valve allows for cylinder change without contaminating the gas line

High Purity Two Stage Brass Gas Regulators

Inlet	Filter	Cat. No.	Quantity
CGA 580	Triple Filter	60180-902	1 Each
DIN 6	Triple Filter	60180-904	1 Each
CGA 350	Triple Filter	60180-906	1 Each
DIN 1	Triple Filter	60180-908	1 Each
CGA 320	Triple Filter	60180-910	1 Each
CGA 580	Combi Filter	60180-916	1 Each
DIN 6	Combi Filter	60180-918	1 Each
CGA 350	Combi Filter	60180-920	1 Each
DIN 1	Combi Filter	60180-922	1 Each
CGA 320	Combi Filter	60180-924	1 Each
CGA 590	Combi Filter	60180-926	1 Each
DIN 13	Combi Filter	60180-928	1 Each

Specifications

Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0 to 100
Flow Capacity	Cv=0.05
Ambient Operating Temperature	-40°F to +165°F
Designed Leak Rate	2 x10 ⁶ ccs (helium)
Weight	5.6 lbs
Ports (5)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" Compression
Decay Inlet Characteristic	0.02/100 psi
Materials	
Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	316 Stainless Steel
Gauges	2 1/2" Nickel-Plated Brass
Filter	316 Stainless Steel
Outlet Valve	Nickel-Plated Brass
Trim	Nickel-Plated Brass

Replacement Indicating Cartridge Filters

Indicating cartridge filters for inert carrier gases

Replacement Indicating Cartridge Filters For High Purity Regulators

Description	Indicator Change	Cat. No.	Quantity
Combi Indicating Filter (H ₂ O, HC)	Purple to Green	60180-941	1 Each
Triple Indicating Filter (H ₂ O, O ₂ , HCs)	Orange to Gray Purple to Green	60180-940	1 Each

Valve with SMART Indicating Purifier (VIP)

Provide either flow control or positive shut off while maintaining gas purity for gasses 99.9999% pure or better



- ▶ Provides a visual indication of contaminants in the gas stream while it is removing them, ensuring consistent performance of analytical processes
- ▶ Safeguards the gas stream and process
- ▶ Specially cleaned for all analytical applications and will not generate contaminants that consume the purifier
- ▶ Patented Quick-Change Base to allow for easy change out of spent purifiers
- ▶ Available in both a multiturn and quarter turn models
- ▶ All valves supplied with a 1/8 in. stainless steel output adaptor

VIP Valves with SMART Filter

Description	Filter	Cat. No.	Quantity
Multi Turn	Triple Filter	60180-950	1 Each
Multi Turn	Combi Filter	60180-951	1 Each
Quarter Turn	Triple Filter	60180-952	1 Each
Quarter Turn	Combi Filter	60180-953	1 Each

Specifications

Weight	1 lb.
Maximum Rated Inlet Pressure	165 PSIG
Flow Capacity	12 L/min.
Ambient Operating Temperature	-40°F to +165°F
Inlet	1/4" FNPT
Outlet	1/4" FNPT
Designed Leak Rate	2 x 10 ⁻⁶ ccs (helium)
Valve Materials	
Body	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	316 Stainless Steel

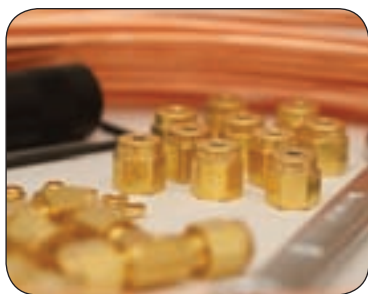
Replacement Indicating Cartridge Filters for VIP Valves

Indicating cartridge filters to be used with VIP Valves

Replacement Indicating Cartridge Filters for VIP Valves

Description	Indicator Change	Cat. No.	Quantity
Triple Indicating Filter (H ₂ O, O ₂ , HCs)	Orange to Gray; Purple to Green	60180-942	1 Each
Combi Indicating Filter(H ₂ O, HC)	Purple to Green	60180-943	1 Each

GC Installation Kit



- ▶ Includes: Tubing cutter; 1/8 x 1/4 in. reamer; 7/16 in. wrench; 1/2 in. wrench; 1/8 in. brass tees, 4; 1/8 in. brass nuts, 10; Brass front and back ferrules, 10; 15.2m instrument-grade, cleaned 1/8-in. copper tubing

GC Installation Kit

Description	Cat. No.	Quantity
GC Installation Kit	60180-888	1 Each

Septa

A wide range to cover most applications



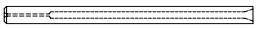















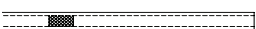

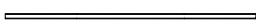










- ▶ Variety of materials and temperature limits for all applications
- ▶ For use in Thermo Scientific TRACE and Thermo Scientific FOCUS GCs and instruments from other manufacturers
- ▶ Contaminant-free in individual blister packs
- ▶ Temperature limit: 400°C




Septa

Brand	Material	I.D.	Cat. No.	Quantity
BTO	Low Bleed Silicone	9mm	31303240	50 Pack
BTO	Low Bleed Silicone	11mm	31303230	50 Pack
BTO	Low Bleed Silicone	12.7mm	31303228	50 Pack
BTO	Low Bleed Silicone	17mm	31303211	50 Pack
TR-Green	Low Coring Silicone	9mm	313G3240	50 Pack
TR-Green	Low Coring Silicone	11mm	313G3230	50 Pack
TR-Green	Low Coring Silicone	12.7mm	313G3228	50 Pack
TR-Green	Low Coring Silicone	17mm	313G3211	50 Pack





















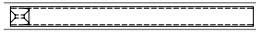
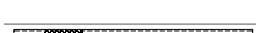






Injection Port Liners for Agilent Instruments

Highly deactivated and produced to exacting tolerances to ensure a high degree of reproducibility

	Injection Type	I.D. x O.D.	Length	Packing	Cat. No.	Quantity
TRACE and FOCUS SSL						
	Splitless Straight Liner	3 x 5mm	105mm	No	453T2121	5 Pack
	Baffle Liner	5 x 8mm	105mm	No	453T1001	5 Pack
	Split Straight Liner	5 x 8mm	105mm	No	45350030	5 Pack
	Split Straight Liner	5 x 8mm	105mm	No	45354030	25 Pack
	Split Straight Liner	3 x 8mm	105mm	No	45350031	5 Pack
	Split Straight Liner	3 x 8mm	105mm	No	45354031	25 Pack
	Splitless Straight Liner	3 x 8mm	105mm	No	45350032	5 Pack
	Splitless Straight Liner	3 x 8mm	105mm	No	45354032	25 Pack
	Splitless Straight Liner	5 x 8mm	105mm	No	45350033	5 Pack
	Splitless Straight Liner	5 x 8mm	105mm	No	45354033	25 Pack
	Split FocusLiner for 50mm Needle	5 x 8mm	105mm	Quartz Wool	453T1905	5 Pack
	Split FocusLiner for 50mm Needle	5 x 8mm	105mm	Quartz Wool	453T4905	25 Pack
	Splitless FocusLiner for 70mm Needle	5 x 8mm	105mm	Quartz Wool	453T2895	5 Pack
	Splitless FocusLiner for 70mm Needle	5 x 8mm	105mm	Quartz Wool	453T4895	25 Pack
	Splitless FocusLiner for 50mm Needle	5 x 8mm	105mm	Quartz Wool	453T2999	5 Pack
	Splitless FocusLiner for 50mm Needle	5 x 8mm	105mm	Quartz Wool	453T4999	25 Pack
	Mixed Liner Split/Splitless Sample Pack	Mixed	Mixed	Mixed	453TH001	5 Pack
	Splitless Straight Liner	5 x 8mm	105mm	CarboFrit	453T2130	5 Pack
	Split Straight Liner	5 x 8mm	105mm	CarboFrit	453T2131	5 Pack
TRACE PTV						
	PTV Silcosteel Liner for OC	1 x 2.75mm	120mm	No	45322052	25 Pack
	PTV Siltek Metal Liner	2 x 2.75mm	120mm	No	45322056	2 Pack
	PTV Straight Liner	0.75mm	105mm	No	45352083	5 Pack
	PTV Straight Liner	1 x 2.75mm	125mm	No	45352054	5 Pack
	PTV Straight Liner	1 x 2.75mm	125mm	No	45354054	25 Pack
	PTV Straight Liner	2 x 2.75mm	120mm	No	45352057	5 Pack
	PTV Straight Liner	2 x 2.75mm	120mm	No	45354057	25 Pack
	PTV Liner with Sintered Lining	2 x 2.75mm	120mm	No	45352060	5 Pack
	PTV Liner with Three Baffles	1 x 2.75mm	120mm	No	45352062	5 Pack
	PTV Liner with Three Baffles	1 x 2.75mm	120mm	No	45354062	25 Pack
	PTV Siltek Metal Liner	2 x 2.75mm	120mm	No	45322044	2 Pack
	PTV Siltek Metal Liner	1 x 2.75mm	120mm	No	45322046	2 Pack
	PTV Baffle Liner (Siltek)	2 x 2.75mm	120mm	No	453T2120	5 Pack

Mega 4000, 5000, and 6000						
	Split Straight Liner	2 × 5mm	79.5mm	No	45350300	5 Pack
	Split Straight Liner	3 × 5mm	79.5mm	No	45350400	5 Pack
	Split/Spitless Liner With Recessed Gooseneck	5 × 5mm	79.5mm	Quartz Wool	453T2955	5 Pack

Injection Port Liners for Agilent Instruments

Injection Port Liners for Agilent Instruments						
	Injection Type	I.D. x O.D.	Length	Packing	Cat. No.	Quantity
	Direct Straight Liner	1.2 × 6.3mm	78.5mm	None	453A1335	5 Pack
	Direct Straight Liner	1.2 × 6.3mm	78.5mm	None	453A2332	25 Pack
	Split/Spitless FocusLiner	4 × 6.3mm	78.5mm	Quartz Wool	453A1255	5 Pack
	Split/Spitless FocusLiner	4 × 6.3mm	78.5mm	Quartz Wool	453A1252	25 Pack
	Split/Spitless Fast FocusLiner	2.3 × 6.3mm	78.5mm	Quartz Wool	453A1285	5 Pack
	Split/Spitless FAST FocusLiner	2.3 × 6.3mm	78.5mm	Quartz Wool	453A2282	25 Pack
	Split/Spitless Liner w/Recessed Gooseneck	4 × 6.3mm	78.5mm	Quartz Wool	453A1305	5 Pack
	Split/Spitless Liner w/Recessed Gooseneck	4 × 6.3mm	78.5mm	Quartz Wool	453A2302	25 Pack
	Split Straight Liner	4 × 6.3mm	78.5mm	Quartz Wool	453A2265	5 Pack
	Split Straight Liner	4 × 6.3mm	78.5mm	Quartz Wool	453A1262	25 Pack
	Split/Spitless FocusLiner with Single Taper	4 × 6.3mm	78.5mm	None	453A1315	5 Pack
	Split/Spitless FocusLiner with Single Taper	4 × 6.3mm	78.5mm	None	453A1312	25 Pack
	Splitless Liner with Single Taper	4 × 6.3mm	78.5mm	Quartz Wool	453A1925	5 Pack
	Splitless Straight Liner	2.0 × 6.1mm	78.5mm	Quartz Wool	453A2275	5 Pack
	Splitless Liner with Recessed Gooseneck	2.0 × 6.3mm	78.5mm	None	453A2325	5 Pack
	Split Straight Liner	4 × 6.3mm	78.5mm	Quartz Wool	453A1295	5 Pack
	Split Straight Liner	4 × 6.3mm	78.5mm	Quartz Wool	453A2292	25 Pack
	Split/Spitless Liner with Single Taper	4 × 6.3mm	78.5mm	None	453A1345	5 Pack
	Split/Spitless Liner with Single Taper	4 × 6.3mm	78.5mm	None	453A2342	25 Pack
	Cyclo/Single Gooseneck	5.2 × 6.3mm	78.5mm	None	453A2000	5 Pack
	Split/Spitless Liner with Double Taper	4 × 6.3mm	78.5mm	None	453A1355	5 Pack
	Split/Spitless Liner with Double Taper	4 × 6.3mm	78.5mm	None	453A2352	25 Pack
	Split/Spitless FAST FocusLiner with Single Taper	2.3 × 7.3mm	78.5mm	None	453A2375	5 Pack
	Split/Spitless FAST FocusLiner with Single Taper	2.3 × 6.3mm	78.5mm	Quartz Wool	453A1372	25 Pack
	Single Gooseneck	5.2 × 6.3mm	78.5mm	None	453A2001	5 Pack
	Split/Spitless	Mixed	Mixed	None	453AG001	4 Pack
	Cycloplitter	5.2 × 6.3mm	78.5mm	None	453A2002	5 Pack
	Split/Spitless	5.2 × 6.3mm	78.5mm	Quartz Wool	453A2003	5 Pack

Liner Sealing Rings

Suited for use with injection liners in instruments from a variety of manufacturers

Liner Sealing Rings				
For Use with	For Liner Type	Material	Cat. No.	Quantity
Thermo Scientific Instruments	8mm O.D. Liners	Graphite	29033406	10 Pack
Thermo Scientific TRACE	45322052 Liner	Graphite	29013417	2 Pack
Agilent Instruments	453A1335, 453A1355, 453A2332, 453A2352 Liners	Graphite	290GA242	10 Pack
Agilent Instruments	453A2265, 453A1255, 453A1315, 453A1285, 453A1295, 453A2282, 453A1305, 453A1312, 453A2325, 453A1345, 453A2375, 453A1372, 453A1252, 453A1262, 453A2292, 453A2302, 453A2342 Liners	Graphite	290GA243	10 Pack
Agilent Instruments	453A2275 Liners	Graphite	290GA244	10 Pack
Agilent Instruments	453A1335, 453A1355, 453A2332, 453A2352, 453A2265, 453A1255, 453A1315, 453A1285, 453A1295, 453A2282, 453A1305, 453A1312, 453A2325, 453A1345, 453A2375, 453A1372, 453A1252, 453A1262, 453A2292, 453A2302, 453A2342, 453A2275 Liners	Viton	2900A241	10 Pack

Gold Inlet Base Seals for Agilent GCs

Gold plating provides a surface with exceptional inertness suitable for analysis of highly active compounds



- ▶ Precision machined to provide exceptional sealing properties
- ▶ Reduces activity (especially useful for analysis of pesticide, PCBs, phenols etc)
- ▶ High grade stainless steel providing reproducible seal
- ▶ Direct equivalent to Agilent original part
- ▶ All Agilent GC 5890/6890/7890 split/splitless injection ports

Thermo Scientific Gold Inlet Base Seals for Agilent GCs

For Use with	I.D.	Cat. No.	Quantity
Single column installation	0.8mm	290GA081	10 Pack
Single column installation	0.8mm	290GA082	2 Pack
Dual column installation	1.2mm	290GA121	10 Pack
Dual column installation	1.2mm	290GA122	2 Pack

Gold Cross Inlet Base Seals for Agilent GCs

Gold plating provides a surface with exceptional inertness suitable for analysis of highly active compounds



- ▶ Precision machined to provide exceptional sealing properties
- ▶ Reduces activity (especially useful for analysis of pesticide, PCBs, phenols etc)
- ▶ High grade stainless steel providing reproducible seal
- ▶ Direct equivalent to Agilent original part
- ▶ Compatible with all Agilent GC 5890/6890/7890 split/splitless injection ports

S99164

Gold Cross Inlet Base Seals for Agilent GC Instruments

I.D.	Cat. No.	Quantity
0.8mm	290GA084	10 Pack
0.8mm	290GA083	2 Pack

Siltek Inlet Base Seals for Agilent GCs

Siltek coating provides a surface with exceptional inertness suitable for the analysis of highly active compounds.



- ▶ Precision machined top to provide exceptional sealing properties
- ▶ Reduces activity (especially useful for analysis of pesticides, PCB's, phenols, etc.)
- ▶ High grade stainless steel providing reproducible seal

Siltek-Treated Inlet Base Seals for Agilent GC Instruments

I.D.	Cat. No.	Quantity
0.8mm	290GA091	10 Pack
0.8mm	290GA092	2 Pack

Siltek Cross Inlet Base Seals for Agilent GCs

Siltek coating provides a surface with exceptional inertness suitable for analysis of highly active compounds



- ▶ Ideal for high-flow split applications on Agilent GCs
- ▶ Precision machined to provide exceptional sealing properties
- ▶ Reduces activity (especially useful for analysis of pesticides, PCB's, phenols, etc.)
- ▶ High grade stainless steel providing reproducible seal

Siltek-Treated Cross Inlet Base Seals for Agilent GC Instruments

I.D.	Cat. No.	Quantity
0.8mm	290GA094	10 Pack
0.8mm	290GA093	2 Pack

Finger Tite Connectors

Easier fit, reliability and leak-free connections



- ▶ **Advantages over conventional graphite/polymer ferrules:**
- ▶ **Perfect metal-to-metal seal eliminates contamination and gives lower air/water background**
- ▶ **No need to retighten ferrules, as they expand and contract with the fitting over GC operating temperatures**
- ▶ **Easy to handle with the nut touchable even with a hot injector/detector**
- ▶ **No tools required**
- ▶ **Available for Thermo Scientific and Agilent GC instruments**

Finger Tite Connectors for Thermo Scientific Instruments

Description	Cat. No.	Quantity
Female Nut	290ST130	5 Pack
Split/Splitless and MS Starter Kit	290ST131	1 Each
Split/Splitless & FID Starter Kit	290ST132	1 Each

Finger Tite Connectors for Agilent Instruments

Description	Cat. No.	Quantity
Male Nut	290SA130	5 Pack
Split/Splitless & MS Starter Kit	290SA131	1 Each
Split/Splitless & FID Starter Kit	290SA132	1 Each
Split/Splitless Injector Base Seal	290SA133	2 Pack

Finger Tite Ferrules

I.D.	For Use with	Cat. No.	Quantity
0.4mm	0.1-0.25mm I.D. columns	290S1132	10 Pack
0.5mm	0.32mm I.D. columns	290S1131	10 Pack

Ferrules

Wide range of choices for a wide range of instruments and applications

Thermo Scientific ferrules are available in three different materials and various dimensions to match the instrument and capillary column ID. The choice of material is dependent upon the use; guidelines are given in the table

Material Type	Suitable for GC/MS	Temp Limit (°C)	Re-usable
Graphite	No	450	Yes
Graphite/Vespel	Yes	350	No
Stainless Steel (SiITite)	Yes	500	No

100% Graphite Ferrules



Thermo Scientific 100% graphite ferrules are a soft material that is porous to oxygen, making them suitable for most applications

except GC/MS interface connections. These easy-to-use ferrules form a soft grip with the column and provide a stable seal.

15% Graphite/85% Vespel Ferrules



The mechanically robust 15% Graphite /85% Vespel ferrules have a long lifetime and are compatible with GC/MS. These ferrules form

a strong grip with the column and cannot be reused as they form a permanent seal with the column. They have a temperature limit of 350 °C, but must be re-tightened after initial temperature cycles.

SiITite™ Metal Ferrules



SiITite™ metal ferrules and nuts are made from the same material and have the same thermal expansion coefficient.

The SiITite ferrule forms a strong, permanent, airtight seal around the capillary column, eliminating leaks. The base of the ferrule is flat and forms a perfect seal with the MS interface. The ferrule's temperature tolerance is well above the limit of the injector, MS interface or GC oven. Unlike other ferrules, SiITite Ferrules do not need re-tightening after installation.

Please also see syringes on page 00.

All varieties of ferrules are supplied in contaminant-free, individual blister packs, allowing removal of an individual item without risk of contamination to the other supplied items.

Ordering Information

Thermo Scientific Instruments

Description	Uses	Ferrule Size (Column ID)	Quantity	Part Number
100% Graphite Ferrules	TRACE and FOCUS Injectors and Detectors (not GC/MS interface)	0.1 – 0.25 mm	10	29053488 ¹
		0.32 mm	10	29053487 ¹
		0.53 mm	10	29053486 ¹
15% Graphite/85% Vespel Ferrules	TRACE Cold On-Column Injectors	0.1 – 0.25 mm	10	29033461
		0.32 mm	10	29033460
		0.53 mm	10	29033471
		Packed Column 1/8" OD	10	290VT168
		Packed Column 1/4" OD	10	290VT165
		Injectors and Detectors	0.1 – 0.25 mm	10*
	0.32 mm		10*	290VT187
	0.53 mm		10*	290VT188
	Brass Nut		2	290BT239
	GC/MS Interface	0.1 – 0.25 mm	10	29033496
0.32 mm		10	29033497	
SiITite Kit	GC/MS Interface	0.1 – 0.25 mm	1**	290MT229
		0.32 mm	1**	290MT230
		0.53 mm	1**	290MT231
Replacement SiITite Ferrules		0.1 – 0.25 mm	10	290MT221
		0.32 mm	10	290MT222
		0.53 mm	10	290MT223
		Replacement SiITite Nuts	5	290MT211

¹ Must be used in conjunction with brass nut PN 290BT239

** Kit contains 2 SiITite nuts and 10 ferrules

[†] Equivalent to PN 29013488, 29013487 & 29013486 previously sold in quantities of two

Agilent 5890, 6890 and 6850 Instruments

Description	Uses	Ferrule Size (Column ID)	Quantity	Part Number
15% Graphite/85% Vespel Ferrules	Injectors and Detectors	0.1 – 0.25 mm	10	290VA191
		0.32 mm	10	290VA192
		0.53 mm	10	290VA193
		Packed Column 1/8" OD	10	290VT168
		Packed Column 1/4" OD	10	290VT165
	GC/MS Interface	0.1 – 0.25 mm	10	29033496
		0.32 mm	10	29033497
		0.53 mm	10	290VP144
	100% Graphite Ferrules	Injectors and Detectors at Atmospheric Pressure (Not for GC/MS)	0.1 – 0.32 mm	10
0.45 – 0.53 mm			10	290GA140
Packed Column 1/8" OD			10	290GA108
Packed Column 1/4" OD			10	290GA107
SilTite Kits	GC/MS Interface	0.1 – 0.25 mm	1*	290MA194
		0.32 mm	1*	290MA195
		0.53 mm	1*	290MA196
	Split Splitless Injectors	0.1 – 0.25 mm	1**	290MA215
		0.32 mm	1**	290MA216
		0.53 mm	1**	290MA217
Replacement SilTite Ferrules	For all SilTite Connectors	0.1 – 0.25 mm	10	290MA201
		0.32 mm	10	290MA202
		0.53 mm	10	290MA203
SilTite Nuts	GC/MS Interface		5	290MA205
	Split Splitless Injectors		5	290MA207
	Replacement Baseplate Seals		2	290MA227
			10	290MA228

* Kits contain 2 nuts and 10 ferrules

** Contains 2 nuts, 10 ferrules and 2 base seals

Retention Gap Kits

Support Thermo Scientific gas chromatography consumables



- ▶ Length of deactivated fused silica tubing
- ▶ Mini-union
- ▶ 5 Ferrules

Retention Gap Kits

Description	Cat. No.	Quantity
Retention gap kit, I.D. 0.22 - 0.32mm, 2m (includes connectors)	260RG497	1 Each
Retention gap kit, I.D. 0.53mm, 2m (includes connectors)	260RG499	1 Each
Retention gap kit, I.D. 0.53mm, 5m (includes connectors)	260RG500	1 Each
Deactivated silica tubing; 0.32mm I.D.; 2m Length	260G498P	1 Each
Deactivated silica tubing; 0.53mm I.D.; 2m Length	260G499P	1 Each
Deactivated silica tubing, I.D. 0.25mm, 5m	260G495P	1 Each
Deactivated silica tubing, I.D. 0.32mm, 5m	260G496P	1 Each
Deactivated silica tubing ID 0.53mm, 5m	260G500P	1 Each
Deactivated silica tubing ID 0.53mm, 1m (Siltek)	260G401P	1 Each



- ▶ Kit contains one union and five ferrules

Mini Capillary Unions

For Use with	Cat. No.	Quantity
0.32mm ID capillary GC column	290GU498	1 Each
0.53mm ID capillary GC column	290GU499	10 Pack

Capillary Column End Caps

Feature a universal fit to all GC capillary columns



- ▶ Eliminate column contamination caused by leaving a column unsealed or sealed with a septum
- ▶ Color-coordinated fittings ensure that the column is reinstalled the same way it came out
- ▶ Reusable

Capillary Column End Caps

Description	Cat. No.	Quantity
Capillary Column End Caps, Paired	260EC111	10 Pack

Capillary GuardGOLD Columns

Providing protection to the analytical column



- ▶ Protects against column contamination caused by non-volatile materials, extending the column lifetime
- ▶ Focuses target analytes at the head of the analytical column, leading to better chromatographic peak shape
- ▶ Highly deactivated to provide superior inertness, essential for analysis of active compounds.
- ▶ High maximum operating temperature of 360°C

Capillary Guard Columns

I.D.	Length	Cat. No.	Quantity
GuardGOLD Columns			
0.25mm	2m	26050-0225	1 Each
0.32mm	2m	26050-0232	1 Each
0.53mm	2m	26050-0253	1 Each
0.25mm	5m	26050-0525	1 Each
0.32mm	5m	26050-0532	1 Each
0.53mm	5m	26050-0553	1 Each
0.25mm	10m	26050-1025	1 Each
0.32mm	10m	26050-1032	1 Each
0.53mm	10m	26050-1053	1 Each

SilTite Capillary Column Connectors

For use with capillary GC columns

- ▶ For fused silica capillary columns
- ▶ Glass lined for inertness
- ▶ Low thermal mass

SilTite Capillary Column Connectors

Column I.D.	2nd Column I.D.	Pack Contents	Cat. No.	Quantity
0.1 - 0.25mm	0.1 - 0.53mm	1 Connector, 2 Nuts and 5 Ferrules (0.1 - 0.25mm I.D.)	290MU498	1 Each
0.32mm	0.32 - 0.53mm	1 Connector, 2 Nuts and 5 Ferrules (0.32mm I.D.)	290MU499	1 Each
0.45 - 0.53	0.45 - 0.53mm	1 Connector, 2 Nuts and 5 Ferrules (0.45 - 0.53mm I.D.)	290MU500	1 Each
Replacement SilTite Connector Nuts [†]		5 Nuts	290MN211	1 Each

[†] SilTite nuts must be used with SilTite ferrules

SilTite Ferrules

Column I.D.	Cat. No.	Quantity
0.25mm	290MF229	10 Pack
0.32mm	290MF230	10 Pack
0.53mm	290MF231	10 Pack

SWAP-IT GC MS Interface System

Easy to install for quick column changeovers

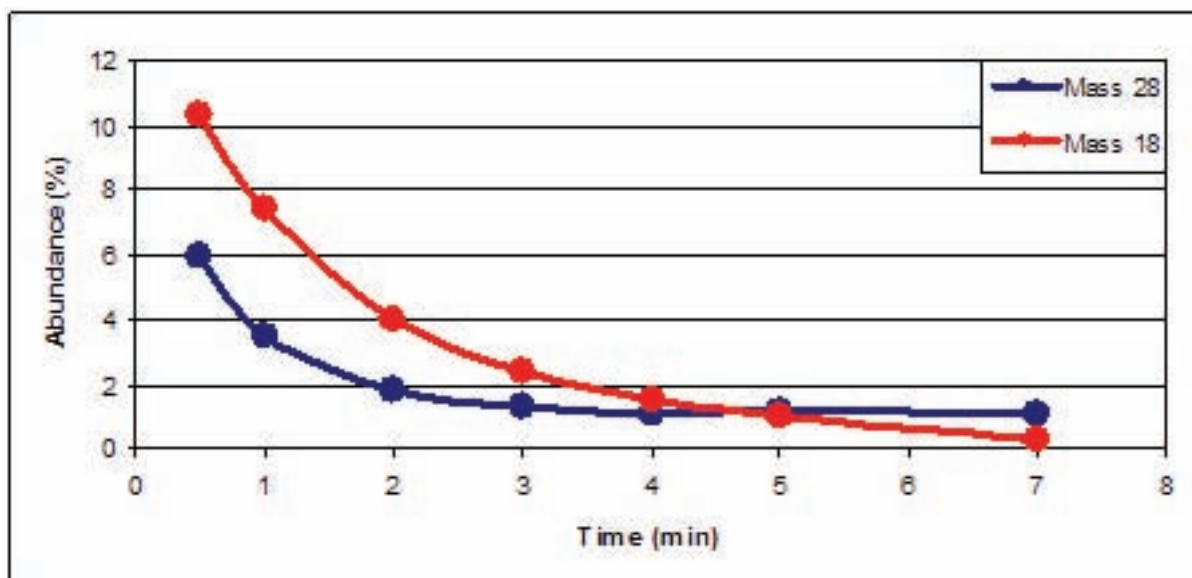


The SWAP-IT GCMS Interface provides a powerful tool for switching capillary columns without the need to vent the MS.

- ▶ **Specially deactivated, robust stainless steel transfer capillary provides an interface between the analytical column and the MS detector**
- ▶ **Small ID of transfer capillary ensures exposure to air and water is reduced to a minimum during disconnection of the analytical column**
- ▶ **The system works without the requirement for additional He-purge/make-up gas flow**
- ▶ **Finger-tight connections make exchanging the analytical column quick and easy without the need for tools**

SWAP-IT No Vent System

Description	Cat. No.	Quantity
For Thermo Scientific Instruments		
SWAP-IT GCMS Interface Kit: SWAP-IT GCMS Interface, Nuts, Ferrules, Accessories	60180-790	1 Each
SWAP-IT GCMS Interface, SWAP-IT only	60180-792	1 Each
Transfer Line Nut	290SG001	1 Each
Graphite/Vespel Ferrule for Transfer Line	290SG020	10 Pack
For Agilent Instruments		
SWAP-IT GCMS Interface Kit: SWAP-IT GCMS Interface, Nuts, Ferrules, Accessories	60180-794	1 Each
SWAP-IT GCMS Interface, SWAP-IT Only	60180-796	1 Each
Transfer Line Nut	290SG004	1 Each
Graphite/Vespel Ferrule for Transfer Line	290SG021	10 Pack
SWAP-Tight Nut and Adaptor for S/SL Injector	290SG003	1 Each
Accessories		
SWAP-Tight Nut	290SG002	1 Each
SWAP-Tight Ferrules, Blank	290SG000	10 Pack
SWAP-Tight Ferrules, 0.1-0.25mm	290SG025	10 Pack
SWAP-Tight Ferrules, 0.32mm	290SG032	10 Pack



General Gas Chromatography Tools

Support GC applications



General Gas Chromatography Tools

Description	Cat. No.	Quantity
Straight-Tipped Forceps	60180-770	1 Each
Angle-Tipped Forceps	60180-771	1 Each
Pin Vice	60180-772	1 Each
Magnifying Glass	60180-773	1 Each
Probes	60180-774	1 Each
Inspection Mirror	60180-775	1 Each
Pick-Up Tool	60180-777	1 Each
0.35mm Drill Bit	60180-779	1 Each
0.45mm Drill Bit	60180-780	1 Each
0.70mm Drill Bit	60180-781	1 Each
Adjustable Spanner	60180-782	1 Each
Tri-Scale Ruler	60180-783	1 Each
Shortix Capillary Column Cutter	60180-835	1 Each
Shortix Capillary Column Cutter Repair Kit	60180-836	1 Each
Ceramic Column Cutter	60201-318	1 Each

GC Tool Kit for Thermo Scientific Instruments

GC Tool Kit for Thermo Scientific Instruments

Description	Cat. No.	Quantity
Capillary Tool Kit for Thermo Scientific GCs	60180-784	1 Each

GC Tool Kit for Agilent Instruments

GC Tool Kit for Agilent Instruments

Description	Cat. No.	Quantity
Capillary Tool Kit for Agilent GCs	60180-786	1 Each

GLD Pro Gas Leak Detector

Aids in quickly locating and identifying gas leaks

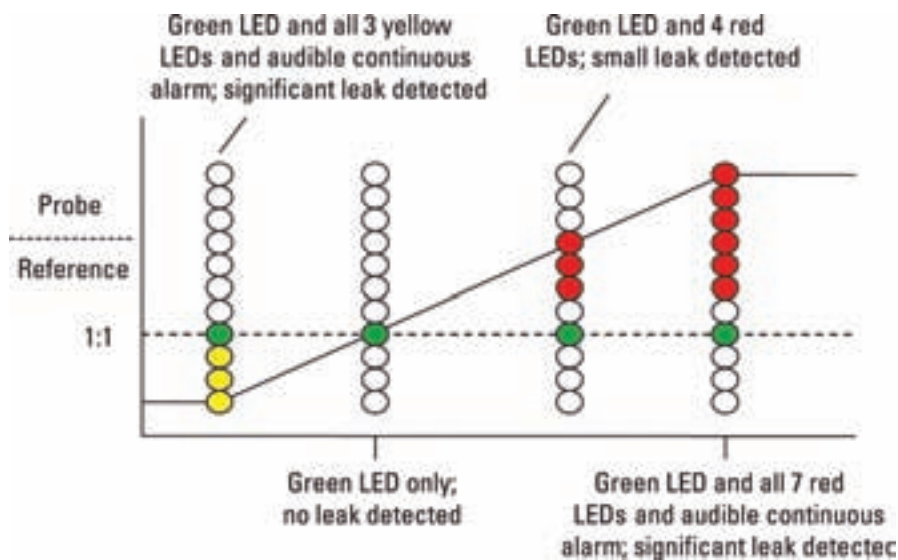


The GLD Pro Gas Leak Detector is specifically designed for use with gas chromatography instruments. Detection of leaks allows the user to reduce detector noise, provide a stable baseline, reduce carrier gas by minimizing waste, and maximize the lifetime of the analytical column by minimizing the presence of oxygen and other impurities in the carrier gas.

- ▶ Suitable for detection of a wide range of laboratory gases
- ▶ Push button on/off switch
- ▶ Push button zero function
- ▶ Automatic shutoff (5 minutes)
- ▶ LED light indicator for intensity of leak
- ▶ Rechargeable battery (up to 6 hrs operation)
- ▶ Durable storage case
- ▶ Probe holder
- ▶ One year warranty

GLD Pro Gas Leak Detector

Description	Cat. No.	Quantity
GLD Pro Leak Detector	66002-001	1 Each
Small Probe Adaptor	66002-003	1 Each
Soft-sided Carry Case (Leak Detector not included)	66002-002	1 Each



GFM Pro Electronic Flowmeter

Measure and monitor flow quickly and efficiently

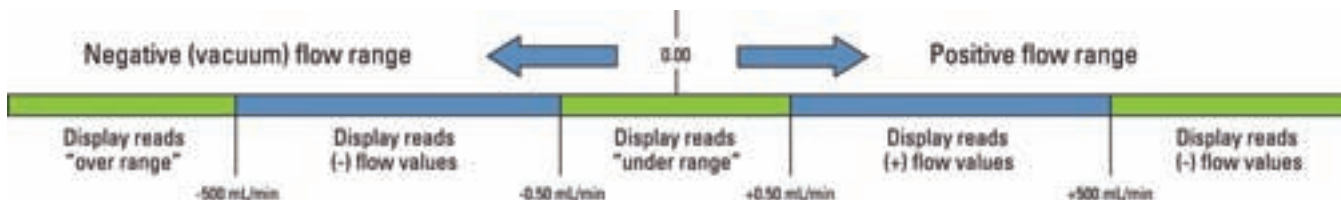


The GFM Pro Flowmeter is specifically designed for use with gas chromatography (GC) instruments. This versatile product is an electronic device capable of measuring bidirectional, volumetric flow for all types of gases. Real-time measurements can be made for various types of flow paths including continually changing gas types. The unit is portable so it can be hand-held or it also has an optional stand for bench-top convenience.

- ▶ **Compact ergonomic design features side grips for added durability**
- ▶ **Easy-to-use interface features over-range warning indicator and auto-shutoff**
- ▶ **Measurement range of 0.5-500 mL/min (both positive & negative flow)**
- ▶ **Accuracy of +/- 2% of flow or +/- 0.05 mL/min, whichever is greater**
- ▶ **Data output via USB port**
- ▶ **Calibration: traceable to NIST primary standards**
- ▶ **Explosion-proof rating for flammable and explosive gases**
- ▶ **CE certified**
- ▶ **Uses 2-AA batteries**
- ▶ **Re-calibration service available**

GFM Pro Electronic Flowmeter

Description	Cat. No.	Quantity
GFM Pro Flowmeter	66002-010	1 Each
Soft-sided Carry Case (Flowmeter not included)	66002-002	1 Each



Thermo Scientific GC Syringes

Autosampler Syringes for Thermo Scientific Instruments

Autosampler Syringes for Thermo Scientific Instruments											
Volume	Needle Type	Length	Gauge	Tip Style	TriPlus	AS3000	AS2000	AS200/ AS800	Type	Cat. No.	Quantity
0.5µL	Plunger-in-Needle	50mm	23	Cone	X	X			Split/PTV	36504045	1 Each
0.5µL	Plunger-in-Needle	75mm	31	Cone					Manual OC	36500500	1 Each
0.5µL	Plunger-in-Needle	80mm	26	Cone	X				Splitless and OC	36504046	1 Each
5µL	Fixed	50mm	26	Cone	X				Split/PTV	36504047	1 Each
5µL	Fixed	50mm	23	Cone		X	X	X		365C3701	1 Each
5µL	Fixed	50mm	26	Cone		X	X		Split/PTV	36500505	1 Each
5µL	Removable	75mm	31	Cone					Manual OC	36500510	1 Each
5µL	Fixed	80mm	26	Cone	X				Splitless and OC	36502025	1 Each
10µL	Removable	42mm	23	Cone				X		365D1611	6 Pack
10µL	Fixed	50mm	26	Cone		X	X	X		365D3711	1 Each
10µL	Fixed	50mm	26	Cone		X	X	X		365D1856	6 Pack
10µL	Fixed	50mm	25	Cone	X	X	X	X	Split/PTV	36500525	1 Each
10µL	Fixed	50mm	23	Cone	X	X	X	X	PTV/SSL Split	36520060	1 Each
10µL	Removable	50mm	26	Cone		X	X			365D1841	1 Each
10µL	Removable	50mm	23	Cone		X	X	X		365D3731	1 Each
10µL	Fixed	80mm	23	Cone	X		X		Merlin Valve SSL Splitless	36520061	1 Each
10µL	Fixed	50mm	23-26	Cone	X		X		OC in PTV Merlin Valve	36500580	1 Each
10µL	Fixed, Gas Tight	50mm	23	Cone			X			365D3741	1 Each
10µL	Fixed	80mm	26	Cone	X		X		OC and Splitless	36502019	1 Each
10µL	Removable, Gas Tight	75mm	31	Cone					Manual OC	36500520	1 Each
50µL	Removable, Gas Tight	50mm	25	Bevel				X		365G2161	1 Each
50µL	Removable	50mm	23	Cone			X		LV Splitless	36503015	1 Each
100µL	Removable	50mm	25	Bevel				X		365H2301	1 Each
100µL	Removable, Gas Tight	50mm	23	Side hole	X		X		See Note	36520050	1 Each
100µL	Removable, Gas Tight	50mm	25	Bevel				X		365H2381	1 Each
100µL	Removable, Gas Tight	50mm	23	Cone	X		X	X	LV Splitless	36500495	1 Each
250µL	Fixed, Gas Tight	50mm	25	Bevel				X		365I2561	1 Each
250µL	Removable, Gas Tight	50mm	25	Bevel				X		365I2611	1 Each
250µL	Removable, Gas Tight	80mm	26	Cone	X		X		LVOC	36500490	1 Each
250µL	Removable, Gas Tight	50mm	23	Side hole	X		X	X	See Note	36520051	1 Each
1.0mL	Removable, Gas Tight	50mm	23	Bevel				X		365K3041	1 Each

Syringe 36520051 is to be used when performing PTV/LVI injections with a dedicated liner for thermo labile compounds (liner 45352060). Compatible with Merlin Microseal device installed on BEST PTV and with AS2000 and TriPlus autosamplers for liquids.

Autosampler Syringes for Agilent Instruments

Autosampler Syringes for Agilent Technologies						
Volume	Needle Type	Length	Gauge	Needle Point	Cat. No.	Quantity
0.5µL	Removable	42mm	26	Cone	365A0411	1 Each
0.5µL	Removable	42mm	23	Cone	365A0421	1 Each
0.5µL	Removable	42mm	23 to 26	Cone	365A0431	1 Each
5µL	Fixed	42mm	26	Cone	365C0921	1 Each
5µL	Fixed	42mm	26	Cone	365C0926	6 Pack
5µL	Fixed	42mm	23	Cone	365C0951	1 Each
5µL	Fixed	42mm	23	Cone	365C0956	6 Pack
5µL	Fixed	42mm	23 to 26	Cone	365C0971	1 Each
5µL	Fixed	42mm	23 to 26	Cone	365C0976	6 Pack
10µL	Fixed	42mm	26	Cone	365D1521	1 Each
10µL	Fixed	42mm	26	Cone	365D1526	6 Pack
10µL	Fixed	42mm	23 to 26	Cone	365D1561	1 Each
10µL	Fixed	42mm	23	Cone	365D1571	1 Each
10µL	Fixed	42mm	23	Cone	365D1576	1 Each
10µL	Removable	42mm	23	Cone	365D1611	6 Pack
10µL	Fixed	42mm	23-26	Cone	365D1621	1 Each
10µL	Fixed	42mm	23-26	Cone	365D1636	1 Each

Autosampler Syringes for CTC

Autosampler Syringes for CTC						
Volume	Needle Type	Length	Gauge	Needle Point	Cat. No.	Quantity
0.5µL	Plunger-in-Needle	50mm	23	Cone	36504045	1 Each
5µL	Fixed	50mm	23	Cone	365C3701	1 Each
5µL	Fixed	50mm	26	Cone	36500505	1 Each
0.5µL	Removable	50mm	26	Cone	365A0490	1 Each
10µL	Fixed	50mm	26	Cone	365D3711	1 Each
10µL	Fixed	50mm	23	Cone	36520060	1 Each
10µL	Removable	50mm	23	Cone	365D3731	1 Each
10µL	Fixed	50mm	26	Cone	365D1856	6 Pack
10µL	Removable	50mm	26	Cone	365D1840	1 Each
10µL	Fixed	50mm	26	Bevel	365D2705	1 Each
10µL	Fixed	50mm	23	Cone	365D2971	6 Pack
10µL	Fixed ¹	50mm	23	Cone	365D2972	6 Pack
10µL	Fixed ¹	50mm	26	Cone	365D2976	6 Pack
10µL	Fixed ¹	50mm	26	Cone	365D2977	1 Each
10µL	Removable ¹	50mm	23	Cone	365D2985	1 Each
10µL	Fixed ¹	50mm	23	Cone	365D3741	1 Each
25µL	Fixed ¹	50mm	26	Cone	365F3700	1 Each
25µL	Fixed ¹	50mm	23	Cone	365F3761	1 Each
25µL	Fixed	50mm	26	Cone	365F3980	1 Each
25µL	Removable ¹	50mm	26	Side hole	365F3988	1 Each
100µL	Fixed ¹	50mm	23	Cone	365H3771	1 Each
100µL	Removable ¹	50mm	26	Cone	365H5333	1 Each
100µL	Fixed ¹	50mm	26	Cone	365H5700	1 Each
250µL	Fixed ¹	50mm	26	Cone	365H6700	1 Each
500µL	Fixed ¹	50mm	26	Cone	365J7700	1 Each
1mL	Fixed ¹	50mm	23	Side hole	365K8130	1 Each
1mL	Removable ¹	50mm	26	Side hole	365K8135	1 Each
2.5mL	Removable ¹	50mm	23	Side hole	365L8630	1 Each
2.5mL	Removable ¹	50mm	26	Side hole	365L8635	1 Each

¹Gas Tight

Manual Syringes

Manual Syringes						
Volume	Needle Type	Length	Gauge	Needle Point	Cat. No.	Quantity
0.5µL	Plunger-in-Needle	50mm	23	Cone	365A0331	1 Each
1.0µL	Plunger-in-Needle	50mm	23	Cone	365B0511	1 Each
1.0µL	Plunger-in-Needle	70mm	23	Cone	365B0531	1 Each
5.0µL	Fixed	50mm	26	Bevel	365C0741	1 Each
5.0µL	Removable	50mm	26	Bevel	365C0761	1 Each
10µL	Fixed	50mm	26	Bevel	365D1091	1 Each
10µL	Fixed	50mm	26	Bevel	365D1096	6 Each
10µL	Removable	50mm	26	Bevel	365D1171	1 Each
25µL	Fixed	50mm	25	Bevel	365F1891	1 Each
25µL	Removable	50mm	25	Bevel	365F1901	1 Each
25µL	Fixed, Gas Tight	50mm	25	Bevel	365F1921	1 Each
25µL	Removable, Gas Tight	70mm	25	Bevel	365F1931	1 Each
50µL	Fixed	50mm	25	Bevel	365G2081	1 Each
50µL	Removable	50mm	25	Bevel	365G2091	1 Each
50µL	Fixed, Gas Tight	50mm	25	Bevel	365G2111	1 Each
50µL	Removable, Gas Tight	50mm	25	Bevel	365G2161	1 Each
100µL	Fixed	50mm	25	Bevel	365H2291	1 Each
100µL	Removable	50mm	25	Bevel	365H2301	1 Each
100µL	Fixed, Gas Tight	50mm	25	Bevel	365H2321	1 Each
100µL	Removable, Gas Tight	50mm	25	Bevel	365H2381	1 Each
250µL	Fixed	50mm	25	Bevel	365I2541	1 Each
250µL	Fixed, Gas Tight	50mm	25	Bevel	365I2561	1 Each
250µL	Removable, Gas Tight	50mm	25	Bevel	365I2611	1 Each
250µL	Fixed, Gas Tight	50mm	25	Bevel	365J2831	1 Each
500µL	Removable, Gas Tight	50mm	25	Bevel	365J2881	1 Each
1.0mL	Removable, Gas Tight	50mm	23	Bevel	365K3041	1 Each
1.0mL	Fixed, Gas Tight	50mm	22	Bevel	365K3051	1 Each

Replacement Needles for GC Syringes

Replacement Needles for GC Syringes		
For Syringe Models	Cat. No.	Quantity
365D1611	365RN252	2 Pack
365D1841	365RN362	2 Pack
365D1771	365RN272	2 Pack
365D3731	365RN372	2 Pack
365H2301, 365F1931, 365G2161, 365H2381, 365I2611, 365F1901, 365G2091, 365J2881	365RN225	5 Pack
365K3041	365RN235	5 Pack
36500495, 36503015	36566485	1 Pack
36500490	36566480	1 Pack
36520050, 36520051, 36520055	36550040	1 Pack
365D1811	365RN351	1 Pack
365C0761	365RN555	5 Pack
365D1171	365RN215	5 Pack
365D1781, 365D1791	365RN282	2 Pack
36500510	36550045	1 Pack
36500520	36550046	1 Pack
365H5333	365RN732	2 Pack
365F3988	365RN749	2 Pack

Replacement Plungers for Syringes

Replacement Plungers for Syringes		
For Use with	Cat. No.	Quantity
365F1921 or 365F1931	365RP421	1 Each
365G2111 or 365G2161	365RP451	1 Each
365H2321 or 365H2381	365RP461	1 Each
365I2561 or 365I2611	365RP481	1 Each
365J2831 or 365J2881	365RP491	1 Each
365K3041 or 365K3051	365RP511	1 Each
365D1811	365RP441	1 Each
365D1561	365RP392	2 Pack
365C1041	365RP382	2 Pack
365D1791	365RP522	2 Pack
365D3741	365RP532	2 Pack
365D1611	365RP412	2 Pack
365H3771	365RP471	1 Each
365D1611	365RK351	1 Each
365D2985	365RP121	1 Each
365F3761	365RP431	1 Each
365F3988	365RP816	1 Each
365H5333	365RP826	1 Each
365L8630, 365L8635	365RP845	1 Each
365F3700	365RP922	1 Each
365H6700	365RP926	1 Each
365J7700	365RP928	1 Each
365K8130, 365K8135	365RP844	2 Each

Repair Kits for Thermo Scientific Plunger-in-Needle Syringes

Extend the life and performance and reduce cost per use of syringes

Repair Kits for Thermo Scientific Plunger-in-Needle Syringes		
For Repair of Syringe Cat. No.	Cat. No.	Quantity
365A0411	365RK541	1 Each
365A0421	365RK241	1 Each
365A0431	365RK261	1 Each
365A0471	365RK291	1 Each
365A0481	365RK331	1 Each
365A0331	365RK321	1 Each
365B0511	365RK311	1 Each
365B0531	365RK341	1 Each
365A0490	365RK770	1 Each

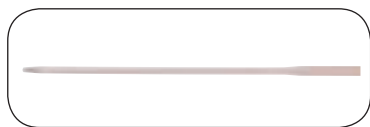
Repair kits for plunger in needle syringes contain both the plunger and needle, which must be changed together

Replacement Seals for Syringes

Replacement Seals for Thermo Scientific Syringes		
For Use with	Cat. No.	Quantity
0.5µL Syringes	365RK561	2 Pack
1.0µL Syringes	365RK563	2 Pack

National Scientific Target Precision Syringes

Syringes for Agilent Technologies, Fixed Needle, 23-26s

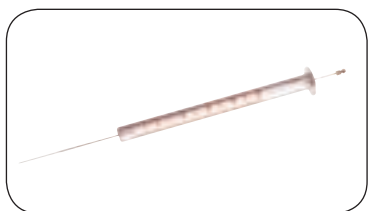


- ▶ 23-26s Tapered needle
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature HP-style dual-gauge, cone-shaped blunt tip
- ▶ Tapered design combines strength of larger diameter 23s with narrow 26s gauge piercing for minimized evaporation and easy on-column injection

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	5181-1273	NS104304	1 Each
10µL	42mm	5181-1267	NS104404	1 Each
5µL	42mm	5181-8810	NS104314	6 Pack
10µL	42mm	5181-3360	NS104414	6 Pack

Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 23-26s



- ▶ 23-26s Gauge, tapered needle; PTFE-tipped plunger
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature HP-style dual gauge, cone-shaped blunt tip
- ▶ Tapered design combines strength of larger diameter 23s with narrow 26s gauge piercing for minimized evaporation and easy on-column injection

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	N/A	NS604304	1 Each
10µL	42mm	5181-3354	NS604404	1 Each
5µL	42mm	N/A	NS604314	6 Pack
10µL	42mm	5181-3361	NS604414	6 Pack

Syringes for Agilent Technologies, Removable Needle, 23-26s



- ▶ 23-26s Tapered needle
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature HP-style dual gauge, cone-shaped blunt tip
- ▶ Tapered design combines strength of larger diameter 23s with narrow 26s gauge piercing for minimized evaporation and easy on-column injection

National Scientific Target Precision GC Syringes for Agilent Technologies, Removable Needle, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	5182-0835	NS104308	1 Each
10µL	42mm	5181-3321	NS104408	1 Each

Syringes for Agilent Technologies, Removable Needle, PTFE Tip Plunger, 23-26s



- ▶ 23-26s Tapered needle; PTFE-tipped plunger
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature HP-style dual gauge, cone-shaped blunt tip
- ▶ Tapered design combines strength of larger diameter 23s with narrow 26s gauge piercing for minimized evaporation and easy on-column injection

National Scientific Target Precision GC Syringes for Agilent Technologies, Removable Needle, PTFE Tip Plunger, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	5181-3356	NS604408	1 Each

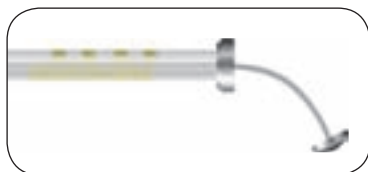
Syringes for Agilent Technologies, Replacement Needles, 23-26s

- ▶ 23-26s Tapered needle

National Scientific Target Precision GC Syringes for Agilent Technologies, Replacement Needles, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	5182-0832	NS834308	3 Pack
10µL	42mm	5181-3319	NS834408	3 Pack

Syringes for Agilent Technologies, Fixed Needle, Super-Elastic Plunger, 23-26s



- ▶ 23-26s Tapered needle; super-elastic plunger
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature cone-shaped 90° blunt tip
- ▶ Tapered design combines strength of larger diameter 23s with narrow 26s gauge piercing for minimized evaporation and easy on-column injection

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, Super-Elastic Plunger, 23-26s

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	N/A	NS164304	1 Each
10µL	42mm	N/A	NS164404	1 Each

Syringes for Agilent Technologies, Fixed Needle, 23 Gauge



- ▶ 23s Gauge needle
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, 23 Gauge

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	9301-0892	NS104305	1 Each
10µL	42mm	9301-0713	NS104405	1 Each
5µL	42mm	5182-0875	NS104315	6 Pack
10µL	42mm	9301-0725	NS104415	6 Pack

Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 23 Gauge



- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ 23s Gauge needle; PTFE-tipped plunger
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 23 Gauge

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	----	NS604305	1 Each
10µL	42mm	5181-8809	NS604405	1 Each
5µL	42mm	----	NS604315	6 Pack
10mL	42mm	5181-4730	NS604415	6 Pack

Syringes for Agilent Technologies, Fixed Needle, 26 Gauge

- ▶ 26s Gauge needle
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, 26 Gauge

Volume	Length	Agilent No.	Cat. No.	Quantity
5µL	42mm	9301-0891	NS104303	1 Each
10µL	42mm	9301-0714	NS104403	1 Each
5µL	42mm	5183-4728	NS104313	6 Pack
10µL	42mm	5181-4729	NS104413	6 Pack

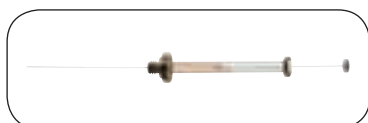
Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 26 Gauge

Use with 7673 Series, 7683 Series, 6850 ALS

- ▶ 26s Gauge needle; PTFE-tipped plunger
- ▶ Use with 7673 Series, 7683 Series, 6850 ALS
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for Agilent Technologies, Fixed Needle, PTFE Tip Plunger, 26 Gauge			
Volume	Length	Cat. No.	Quantity
5µL	42mm	NS604303	1 Each
10µL	42mm	NS604403	1 Each
5µL	42mm	NS604313	6 Pack
10µL	42mm	NS604413	6 Pack

Syringes for PerkinElmer, Fixed Needle, PTFE Tip Plunger, Gas



- ▶ 23s and 26s Gauge needle; PTFE-tipped plunger, gastight
- ▶ Use with AS100/200, AS3000, Autosystem
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for PerkinElmer, Fixed Needle, Gas Tight					
Volume	Length	Needle Gauge	PerkinElmer No.	Cat. No.	Quantity
5µL	70mm	26s	N6101390	NS608302	1 Each
5µL	70mm	23s	N6101380	NS608303	1 Each
5µL	70mm	26s	---	NS108302	1 Each

Syringes for Shimadzu, Fixed Needle



- ▶ 23s and 26s gauge needle
- ▶ Use with AOC-14, AOC-17, AOC-20
- ▶ Feature cone-shaped 90° blunt tip

National Scientific Target Precision GC Syringes for Shimadzu, Fixed Needle					
Volume	Length	Needle Gauge	For Use with	Cat. No.	Quantity
5µL	42mm	26s	---	NS105303	1 Each
5µL	42mm	23s	---	NS105304	1 Each
10µL	42mm	26s	---	NS105403	1 Each
10µL	42mm	23s	221-34618-00	NS105404	1 Each

Syringes for CTC/Leap Technologies, Fixed Needle

- ▶ 26s Gauge needle
- ▶ Use with A200s, GC Pal, LC Pal, HTS Combi-Pal

National Scientific Target Precision GC Syringes for CTC/Leap Technologies, Fixed Needle					
Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
10µL	51mm	26s	Bevel	NS100401	1 Each

Syringes for CTC/Leap Technologies, Fixed Needle, PTFE Tip Plunger, Gas Tight

- ▶ 26s Gauge needle
- ▶ PTFE-tipped plunger, gastight
- ▶ Use with A200s, GC Pal, LC Pal, HTS Combi-Pal

National Scientific Target Precision GC Syringes for CTC/Leap Technologies, Fixed Needle, PTFE Tip Plunger

Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
25µL	51mm	26s	Bevel	NS620506	1 Each
100µL	51mm	26s	Bevel	NS620706	1 Each
100µL	50mm	23s	Cone	NS620703	1 Each
500µL	51mm	26s	Bevel	NS620903	1 Each

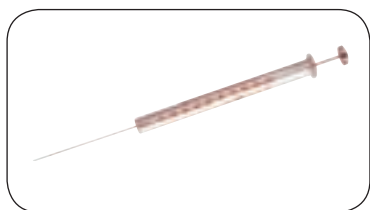
Syringes for CTC/Leap Technologies, Removable Needle, PTFE Tip Plunger, Gas Tight

- ▶ Use with A200s, GC Pal, LC Pal, HTS Combi-Pal
- ▶ 26s Gauge needle
- ▶ PTFE-tipped plunger, gastight

National Scientific Target Precision GC Syringes for CTC/Leap Technologies, Removable Needle, PTFE Tip Plunger, Gas Tight

Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
10µL	51mm	26s	Bevel	NS606405	1 Each

Syringes for Manual, On-Column and Septum Injection, Series N Fixed Needle, Bevel



- ▶ 26s and 22s Gauge needle
- ▶ Use with JADE or Merlin septumless injectors, split and splitless mode

National Scientific Target Precision GC Syringes for Manual, On-Column and Septum Injection, Series N Fixed Needle, Bevel

Volume	Length	Needle Gauge	Needle Point	Cat. No.	Quantity
5µL	51mm	26s	Bevel	NS100301	1 Each
10µL	51mm	26s	Bevel	NS100401	1 Each
25µL	51mm	22s	Bevel	NS100501	1 Each
100µL	51mm	22s	Bevel	NS100701	1 Each
5µL	51mm	26s	Bevel	NS100311	6 Pack
10µL	51mm	26s	Bevel	NS100411	6 Pack

Syringes for Manual, On-Column and Septum Injection, Series N Fixed Needle, 90°

- ▶ 22s Gauge needle
- ▶ Use with JADE or Merlin septumless injectors, split and splitless mode

National Scientific Target Precision Syringes for Manual, On-Column and Septum Injection, Series N Fixed Needle, 90°					
Volume	Length	Needle Gauge	Needle Point	Cat. No.	Quantity
25µL	51mm	22s	90°	NS101502	1 Each
50µL	51mm	22s	90°	NS101602	1 Each
100µL	51mm	22s	90°	NS101702	1 Each
250µL	51mm	22s	90°	NS101802	1 Each

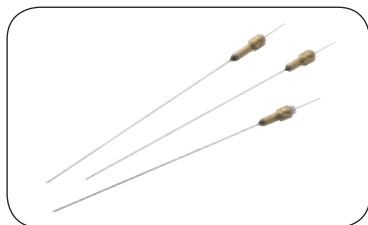
Syringes for Manual, On-Column and Septum Injection, Series N Removable Needle, Bevel



- ▶ Use with JADE or Merlin septumless injectors, split and splitless mode
- ▶ 26s and 22s Gauge needle

National Scientific Target Precision Syringes for Manual, On-Column and Septum Injection, Series N Removable Needle, Bevel					
Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
5µL	51mm	26s	Bevel	NS100305	1 Each
10µL	51mm	26s	Bevel	NS100405	1 Each
25µL	51mm	22s	Bevel	NS100505	1 Each
50µL	51mm	22s	Bevel	NS100605	1 Each
100µL	51mm	22s	Bevel	NS100705	1 Each
250µL	51mm	22s	Bevel	NS100805	1 Each
500µL	51mm	22s	Bevel	NS100905	1 Each

Syringes for Manual, On-Column and Septum Injection, Replacement Needles, Bevel



National Scientific Target Precision Syringes for Manual, On-Column and Septum Injection, Replacement Needles, Bevel					
Volume	Length	Gauge	Needle Type	Cat. No.	Quantity
5µL	51mm	26s	Bevel	NS832301	3 Pack
10µL	51mm	26s	Bevel	NS832401	3 Pack
25-100µL	2"/51mm	22s	Bevel	NS832401	3 Pack
250-500µL	2"/51mm	22s	Bevel	NS832601	3 Pack

Syringes for Manual, On-Column and Septum Injection, Replacement Needles, Blunt



National Scientific Target Precision Syringes for Manual, On-Column and Septum Injection, Replacement Needles, Blunt

Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
5µL	2"/51mm	26s	90° blunt end	NS832302	3 Pack
10µL	2"/51mm	26s	90° blunt end	NS832402	3 Pack
25-100µL	2"/51mm	22s	90° blunt end	NS832502	3 Pack
250-500µL	51mm	22s	90° blunt end	NS832602	3 Pack

Syringes for Accurate Dosing of Liquids, Fixed Needle, Side Hole, Gas Tight



- ▶ Suitable for liquid or gas samples
- ▶ 26s and 22s Gauge needles
- ▶ PTFE-tipped stainless-steel plunger eliminates frozen plungers

National Scientific Syringes for Accurate Dosing of Liquids, Fixed Needle, Side Hole, Gas Tight

Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
5µL	51mm	26s	Bevel	NS600301	1 Each
5µL	51mm	26s	Blunt End	NS600302	1 Each
10µL	51mm	26s	Bevel	NS600401	1 Each
10µL	51mm	26s	Blunt End	NS600402	1 Each
25µL	51mm	22s	Bevel	NS600501	1 Each
25µL	51mm	22s	Blunt End	NS600502	1 Each
50µL	51mm	26s	Bevel	NS100601	1 Each
50µL	51mm	22s	Blunt End	NS600602	1 Each
100µL	51mm	22s	Bevel	NS600701	1 Each
100µL	51mm	22s	Blunt End	NS600702	1 Each
250µL	51mm	26s	Bevel	NS100801	1 Each
250µL	51mm	22	Side Hole	NS600804	1 Each
500µL	51mm	22s	Bevel	NS600901	1 Each
500µL	51mm	22s	Blunt End	NS600902	1 Each
500µL	51mm	22s	Side Hole	NS600904	1 Each
1mL	51mm	22s	Bevel	NS600000	1 Each
1mL	51mm	22s	Blunt End	NS600001	1 Each
1mL	51mm	22s	Side Hole	NS600002	1 Each
5mL	51mm	22s	Bevel	NS600040	1 Each
5mL	51mm	22s	Blunt End	NS600041	1 Each
5mL	51mm	22s	Side Hole	NS600042	1 Each
10mL	51mm	22s	Bevel	NS600060	1 Each
10mL	51mm	22s	Blunt End	NS600061	1 Each
10mL	51mm	22s	Side Hole	NS600062	1 Each

Syringes for Accurate Dosing of Liquids, Fixed Needle, Gas Tight

22s Gauge bevel type fixed needles

National Scientific Target Precision Glass Syringes, Liquid Dosing, FN

Volume	Length	Gauge	Needle Point	Cat. No.	Quantity
50µL	51mm	26s	Bevel	NS100601	1 Each
250µL	51mm	26s	Bevel	NS100801	1 Each
500µL	51mm	26s	Bevel	NS100901	1 Each

Syringes for Accurate Dosing of Liquids, Removable Needle, Gas Tight

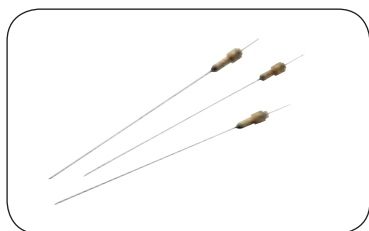


- ▶ Suitable for liquid or gas samples
- ▶ PTFE-tipped stainless-steel plunger eliminates frozen plungers

National Scientific Target Precision Syringes for Accurate Dosing of Liquids, Removable Needle, Gas Tight

Volume	Length	Gauge	Needle Type	Cat. No.	Quantity
5µL	51mm	26s	Bevel point	NS600305	1 Each
5µL	51mm	26s	Blunt end	NS600306	1 Each
10µL	51mm	26s	Bevel point	NS600405	1 Each
10µL	51mm	26s	Blunt end	NS600406	1 Each
25µL	51mm	22s	Bevel point	NS600505	1 Each
25µL	51mm	22s	Blunt end	NS600506	1 Each
50µL	51mm	22s	Bevel point	NS600605	1 Each
50µL	51mm	22s	Blunt end	NS600606	1 Each
100µL	51mm	22s	Bevel point	NS600705	1 Each
100µL	51mm	22s	Blunt end	NS600706	1 Each
250µL	51mm	26s	Bevel point	NS600805	1 Each
500µL	51mm	22s	Bevel point	NS600905	1 Each
500µL	51mm	22s	Blunt end	NS600906	1 Each
500µL	51mm	22s	Side hole	NS600908	1 Each
1.0mL	51mm	22s	Bevel point	NS600005	1 Each
1.0mL	51mm	22s	Blunt end	NS600006	1 Each
1.0mL	51mm	22s	Side hole	NS600007	1 Each
5.0mL	51mm	22s	Bevel point	NS600045	1 Each
5.0mL	51mm	22s	Blunt end	NS600046	1 Each
5.0mL	51mm	22s	Side hole	NS600047	1 Each
10.0mL	51mm	22s	Bevel point	NS600065	1 Each
10.0mL	51mm	22s	Blunt end	NS600066	1 Each

Syringes for Accurate Dosing of Liquids, Replacement Needles



► Suitable for liquid or gas samples

National Scientific Target Precision Syringes for Accurate Dosing of Liquids, Replacement Needles

Volume	Length	Gauge	Needle Type	Cat. No.	Quantity
5µL	42mm	26s	90° Blunt End	NS834307	3 Pack
10µL	42mm	26s	90° Blunt End	NS834407	3 Pack
5µL	51mm	26s	Bevel	NS832301	3 Pack
5µL	51mm	26s	Side Hole	NS832304	2 Pack
10µL	51mm	26s	Bevel	NS832401	3 Pack
10µL	51mm	26s	Side Hole	NS832404	2 Pack
25 to 100µL	51mm	22s	90° Blunt End	NS831014	3 Pack
25 to 100µL	51mm	22s	Side Hole	NS831015	3 Pack
25 to 100µL	51mm	22s	Side Hole	NS832504	2 Pack
25 to 100µL	51mm	22s	Bevel	NS831013	3 Pack
250µL to 10mL	51mm	22s	90° Blunt End	NS841014	3 Pack
250µL to 10mL	51mm	22s	Side Hole	NS841015	2 Pack
250µL to 10mL	51mm	22s	Side hole	NS832604	2 Pack
250µL to 10mL	51mm	22s	Bevel	NS841013	3 Pack

Syringes for Accurate Dosing of Liquids, PTFE Luer-Lok, Gas Tight



► Suitable for liquid or gas

► PTFE-tipped plunger eliminates frozen plungers



National Scientific Target Precision Syringes for Accurate Dosing of Liquids, PTFE Luer-Lok, Gas Tight

Volume	Cat. No.	Quantity
5µL	NS600309	1 Each
10µL	NS600409	1 Each
25µL	NS600509	1 Each
50µL	NS600609	1 Each
100µL	NS600709	1 Each
250µL	NS600809	1 Each
500µL	NS600909	1 Each
1mL	NS607011	1 Each
2.5mL	NS607031	1 Each
5mL	NS607051	1 Each
10mL	NS607071	1 Each
25mL	NS607091	1 Each

Metal Luer-screw Replacement Needles

Feature a precision-machined PTFE-tipped plunger

National Scientific Target Precision Metal Luer-screw Replacement Needles				
Needle Length	Gauge	Needle Type	Cat. No.	Quantity
51mm	26s	90° Blunt End	NS842047	3 Pack
51mm	26s	Bevel	NS840047	3 Pack
51mm	22s	90° Blunt End	NS842070	3 Pack
51mm	22s	Bevel	NS840070	3 Pack

Syringes for Accurate Dosing of Liquids, Luer Tip, Gas Tight



- ▶ Glass Luer-slip tip is compatible with standard Luer profile needles and fittings
- ▶ Sold without needle

National Scientific Target Precision Syringes for Accurate Dosing of Liquids, Luer Tip, Gas Tight		
Volume	Cat. No.	Quantity
25µL	NS600511	1 Each
50µL	NS600611	1 Each
100µL	NS600711	1 Each
250µL	NS600811	1 Each
500µL	NS600911	1 Each
1mL	NS600013	1 Each
2.5mL	NS600033	1 Each
5mL	NS600053	1 Each
10mL	NS600073	1 Each

Syringes for Headspace/Soil Gas Sampling, Fixed Needle, Gas Tight

With PTFE-tipped stainless-steel plungers

- ▶ With PTFE-tipped stainless-steel plungers

National Scientific Target Precision Syringes for Headspace/Soil Gas Sampling, Fixed Needle, Gas Tight					
Volume	Needle Length	Gauge	Needle Point	Cat. No.	Quantity
5µL	51mm	26s	Side hole	NS600304	1 Each
10µL	51mm	26s	Side hole	NS600404	1 Each
250µL	51mm	22s	Side hole	NS600804	1 Each
1mL	51mm	22s	Side hole	NS600002	1 Each
2.5mL	51mm	22s	Side hole	NS600022	1 Each
5mL	51mm	22s	Side hole	NS600042	1 Each

Syringes for CTC/Leap Technology, Headspace, Fixed Needle, Gas Tight



- ▶ For Combi-Pal Headspace Autosampler
- ▶ PTFE-tipped stainless-steel plunger

National Scientific Target Precision Syringes for CTC/Leap Technology, Headspace, Fixed Needle, Gas Tight

Volume	Needle Length	Gauge	Needle Type	Cat. No.	Quantity
10 μ L	51mm	26s	Bevel	NS606401	1 Each
1.0mL	56mm	22s	Side hole	NS620013	1 Each
2.5mL	56mm	22s	Side hole	NS620023	1 Each
5.0mL	56mm	22s	Side hole	NS620049	1 Each

Syringes for On-Column, Fused Silica, Removable Needle

- ▶ Stainless-steel plunger

National Scientific Target Precision Syringes for On-Column, Fused Silica, Removable Needle

Volume	Needle Length	O.D.	Cat. No.	Quantity
5 μ L	100mm	0.23mm	NS142304	1 Each
10 μ L	100mm	0.23mm	NS142404	1 Each

Syringes for On-Column, Fused Silica, Replacement Needle

National Scientific Target Precision Syringes for On-Column, Fused Silica, Replacement Needle

Volume	Needle Length	O.D.	Cat. No.	Quantity
5 μ L	100mm	0.23mm	NS822031	3 Pack
10 μ L	100mm	0.23mm	NS822042	3 Pack