Gas chromatography

Gas chromatography consumables ordering guide

Proven consumables for optimum system performance

ThermoFisher
SCIENTIFIC

thermo scientific

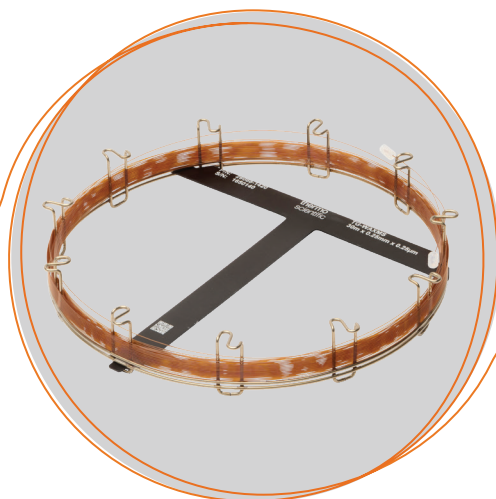# Select the right GC consumable for your GC system

Optimize your gas chromatography (GC) system's performance by selecting the proper GC consumables. Reference the compatibility and recommended use when ordering your consumables for the following systems:

- Thermo Scientific™ TRACE™ 1300 and TRACE™ 1600 Series Gas Chromatographs
- Thermo Scientific™ AI/AS 1310 and AI/AS 1610 Liquid Autosamplers
- Thermo Scientific™ TriPlus™ RSH and TriPlus™ RSH SMART Autosamplers
- Thermo Scientific™ TriPlus™ 500 Headspace Autosampler

Vials/caps

Syringes/SPME fibers

Gas filters

Septa

Ferrules/nuts

Liners

Columns connectors

GC columns

GLD Pro Gas Leak Detector

**GFM Pro Gas Flowmeter**
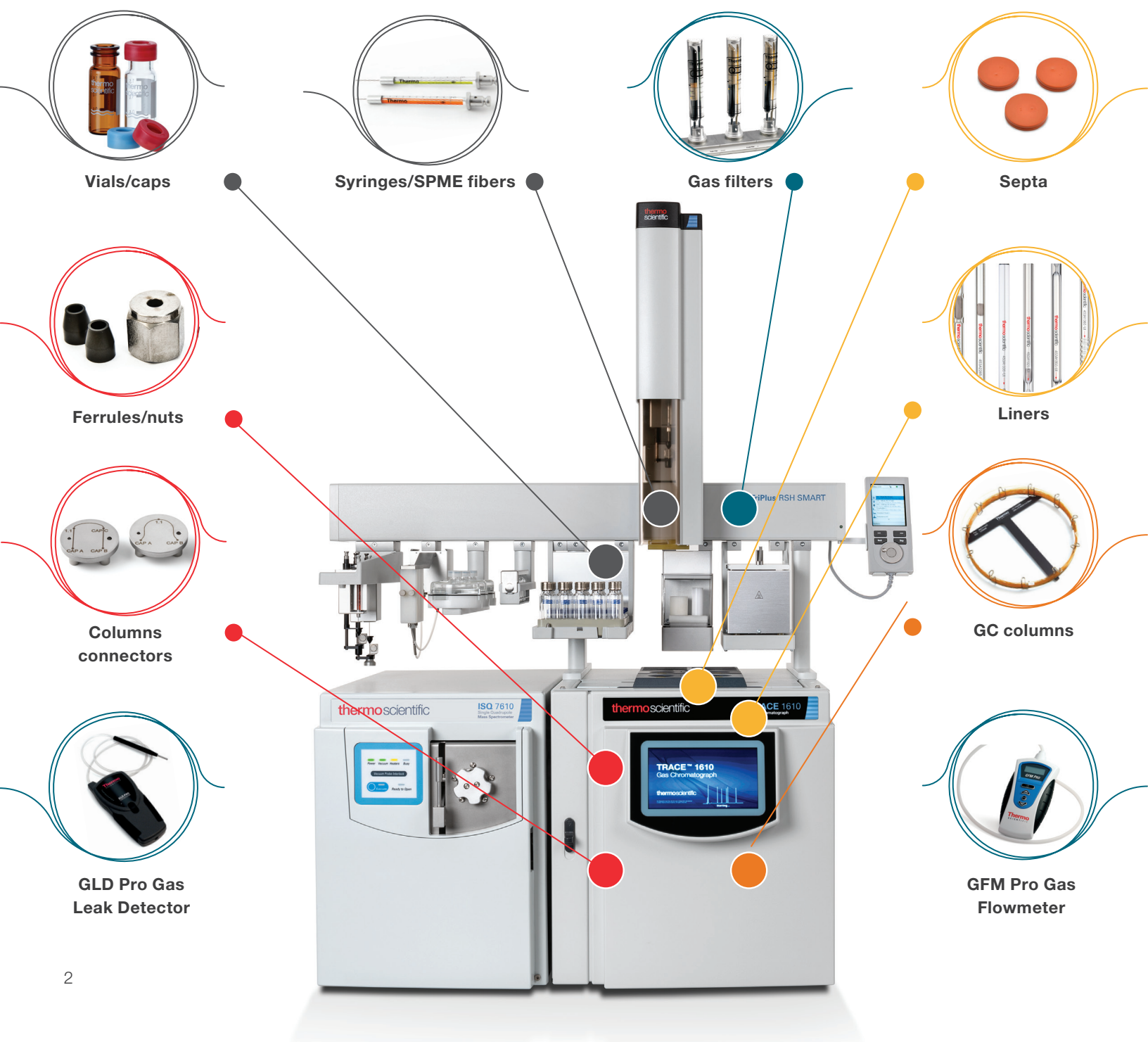
Contents

GC syringes and SPME arrows and fibers

Thermo Scientific™ syringes for AI/AS autosamplers

Volume (µL)	Gauge	Needle type	Tip style	Gas tight	Compatibility	Quantity	Cat. no.
0.5	23	Plunger-in needle	Cone	—	All AI/AS autosamplers for SSL injection with focus/precision liner (453A1255 or 453A1255-UI)	Each	36504045
5	26	Fixed	Cone	No	All AI/AS autosamplers for SSL or PTV injection	Each	36500505
5	23	Fixed	Cone	No		Each	365C3701
10	23	Fixed	Cone	No		Each	36520060
10	23	Fixed	Cone	No		6/pack	365D2971
10	26	Fixed	Cone	Yes		Each	365D2977
10	26	Fixed	Cone	Yes		6/pack	365D2976
10	23	Fixed	Cone	Yes		Each	365D3741
10	25	Fixed	Cone	No		Each	36500525
10	26	Fixed	Cone	No		Each	365D3711
10	26	Fixed	Cone	No		6/pack	365D1856
10	23-26	Fixed	Cone	No		Each	36500580
10	26	Fixed	Bevel	No	All AI/AS autosamplers for PTV injection of polar solvent	Each	365D1091
10	26	Fixed	Bevel	No		6/pack	365D1096
50	23	Removable	Cone	Yes	AI/AS1610 Autosampler for SSL or PTV with the needle 36550040	Each	365G1503
100	23	Removable	Side hole	Yes	AI/AS1610 Autosampler for PTV or SSL with the needle 36566485	Each	36520050
—	23	—	Side hole	—	Replacement needle for syringe 365G1503 or 36520050	2/pack	36550040
—	23	—	Cone	—	Replacement needle for syringe 365G1503 or 36520050	5/pack	36566485

Note: Needle length is 50 mm
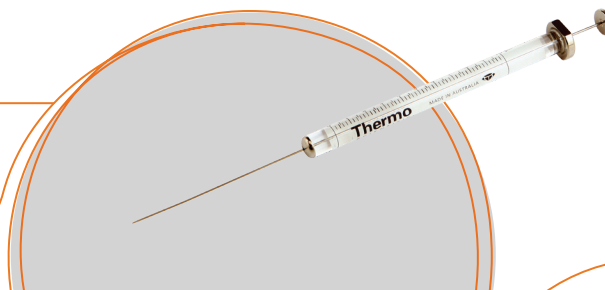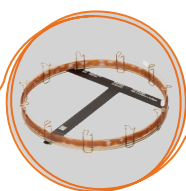
Thermo Scientific™ SMART syringes for TriPlus RSH SMART and TriPlus RSH autosamplers

Volume (µL)	Needle length (mm)	Gauge	Tip style	Gas tight	Recommended use	Quantity	Cat. no.
5	57	26s	Cone	No	PTV or SSL all injection modes	Each	365C0251-SM
10	57	23s	Cone	No	PTV or SSL all injection modes, or injector with Merlin adaptor	Each	365D0271-SM
10	57	26s	Cone	No	PTV or SSL all injection modes	Each	365D0291-SM
10	57	26s	Bevel	No	PTV injection of polar solvent	Each	365D0391-SM
10	57	23s	Cone	Yes	PTV or SSL all injection modes, or injector with Merlin adaptor particularly suitable for volatile solvents or corrosive samples	Each	365D0311-SM
10	85	26s	Cone	No	On-column injection, SSL on TSI injector	Each	365D0281-SM
25	57	23s	Cone	Yes	PTV or SSL all injection modes	Each	365F2441-SM
50	57	23s	Cone	Yes	Large volume splitless with SSL, or PTV (with packed liner 45322056)	Each	365G2311-SM
100	57	23s	Cone	Yes	Large volume splitless with SSL, or PTV (with packed liner 45322056)	Each	365H2141-SM
100	57	23	Side hole	Yes	Large volume PTV (with sintered lining liner 45352060) with or without Merlin adaptor	Each	365H2181-SM
250	57	26	Cone	Yes	Large volume splitless with SSL	Each	365I2331-SM
250	57	23	Side hole	Yes	Large volume PTV (with sintered lining liner 45352060) with or without Merlin adaptor	Each	365I2351-SM
500	57	23	Side hole	Yes	Large volume PTV (with sintered lining liner 45352060) with or without Merlin adaptor	Each	365J2441-SM
2500	65	23	Side hole	Yes	Headspace	Each	365L2321-SM
1000	57	22	LC	Yes	Sample preparation, i.e. dilution, derivatization, liquid-liquid extraction, micro-SPE	Each	365K2811-SM
10000	57	19	LC	Yes	Sample preparation, i.e. dilution, derivatization, liquid-liquid extraction	Each	365N2721-SM

Note: More information on SMART syringes and tool compatibility is available from the SMART Chromatography Syringes User Guide.

GC syringes and SPME arrows and fibers

continued

Thermo Scientific™ SMART SPME Arrows for TriPlus RSH SMART and TriPlus RSH autosamplers

Description	Outer diameter (mm)	Phase thickness (µm)	Color code	Cat. no. (1/pack)	Cat. no. (3/pack)
PDMS	1.1	100	Red	36SA10P1-SM	36SA10P3-SM
PDMS	1.5	250	Black	36SA25P1-SM	36SA25P3-SM
Polyacrylate	1.1	100	Gray	36SA10A1-SM	36SA10A3-SM
Carbon WR	1.1	120	Light blue	36SA12B1-SM	36SA12B3-SM
DVB/PDMS	1.1	120	Violet	36SA12E1-SM	36SA12E3-SM
C-WR/DVB/PDMS	1.1	120	Dark grey	36SA11T1-SM	36SA11T3-SM

Description	Cat. no. (5/pack)
Collection of five different SMART SPME Arrow (PDMS-red, polyacrylate-grey, carbon WR/PDMS-light blue, DVB/PDMS-violet, DVB/carbon WR/PDMS-dark grey)	36SA10M5-SM

Note: fiber length is 20 mm

Thermo Scientific™ SMART SPME Fibers for TriPlus RSH SMART and TriPlus RSH autosamplers

Description	Outer diameter (mm)	Phase thickness (µm)	Color code	Cat. no. (1/pack)	Cat. no. (3/pack)
PDMS	0.6	7	Green	36SP01P1-SM	36SP01P3-SM
PDMS	0.6	30	Golden	36SP03P1-SM	36SP03P3-SM
PDMS	0.6	100	Red	36SP10P1-SM	36SP10P3-SM
Polyacrylate	0.6	85	Gray	36SP08A1-SM	36SP08A3-SM
Carbon WR/PDMS	0.6	95	Dark blue	36SP09C1-SM	36SP09C3-SM
DVB/C-WR/ PDMS	0.6	50/30	Dark grey	36SP05T1-SM	36SP05T3-SM
DVB/PDMS	0.6	65	Violet	36SP06E1-SM	36SP06E3-SM

Description	Cat. no. (5/pack)
Collection of five different SMART SPME fibers (PDMS-red, polyacrylate-grey, carbon WR/PDMS-dark blue, DVB/carbon WR/PDMS-dark grey, DVB/PDMS-violet)	36SP08M5-SM

Note: fiber length is 20 mm

# GC syringes and SPME arrows and fibers

Thermo Scientific™ manual syringes

Volume (µL)	Gauge	Needle type	Gas tight	Cat. no.
5	26	Fixed	No	365C0741 (1PK)
10	26	Removable	No	365D1171 (1PK)
10	26	Fixed	No	365D1091 (1PK)

Note: Needle length is 50 mm.
More manual syringes are available. Find out more at thermofisher.com/gcparts and the GC columns and accessories catalog.

Injection ports

Septum

Liner and liner seal

Silver seal

Ferrule and nuts
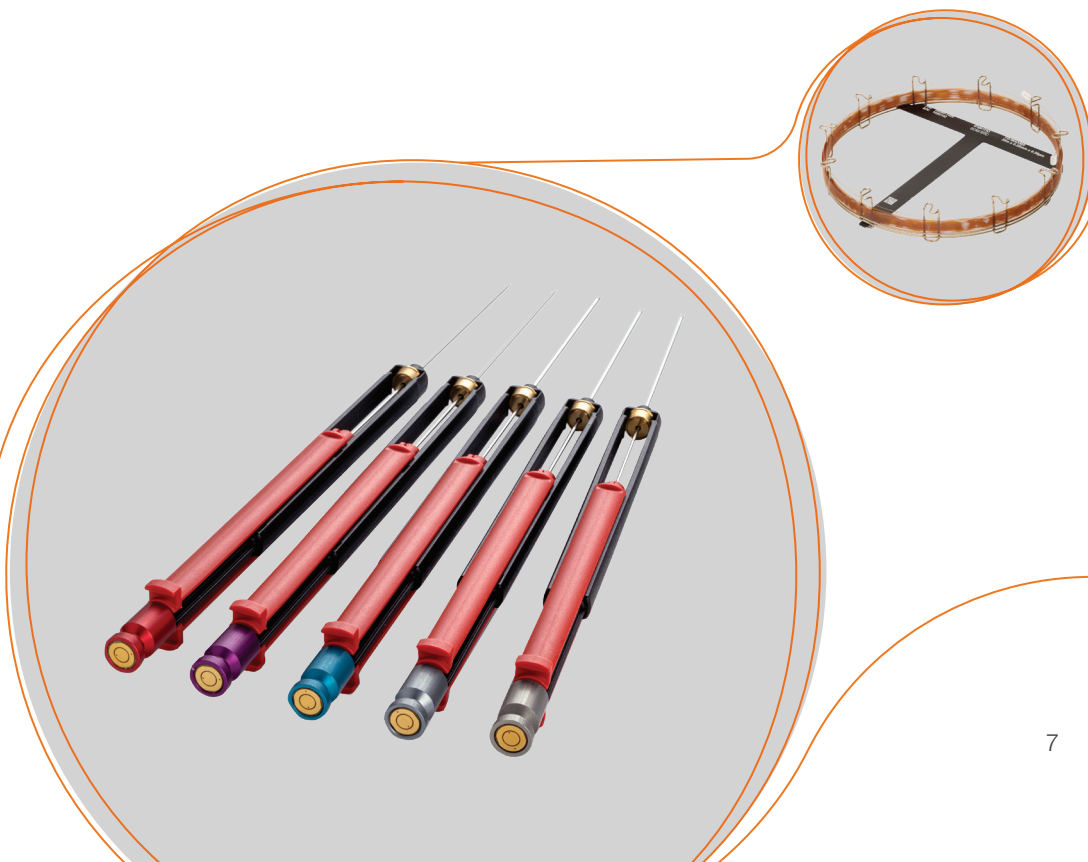
iConnect SSL injector module
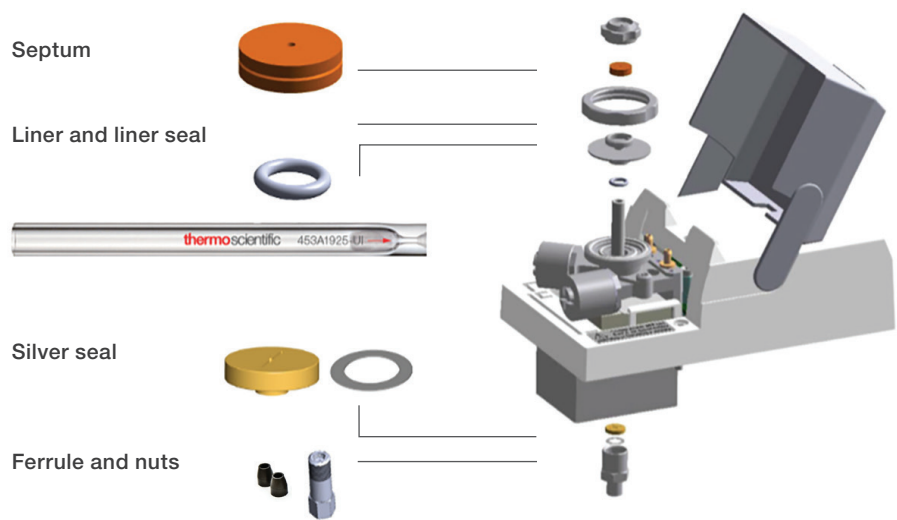
Thermo Scientific™ inlet septa for Thermo Scientific™ iConnect™ Split/Splitless (SSL) Injector Module
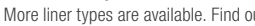
Description	ID (mm)	Recommended use	Quantity	Cat. no.
BTO	11	Low bleed at high temperature, ideal for GC-MS. Maximum temperature 400 °C	50/blister pack	31303233-BP
			50/glass jar	31303233
TR-green	11	Low coring. Maximum temperature 350 °C	50/blister pack	313G3230-BP
			50/glass jar	313G3230
Marathon	11	Highly durable, ideal for SPME. Maximum temperature 350 °C	50/blister pack	313P3233-BP
			50/glass jar	313P3233
TR-blue	11	General purpose. Maximum temperature 250 °C	50/glass jar	313B3233

Injection ports

Thermo Scientific™ liners for iConnect SSL injector module

Description	ID (mm)	Packing	Recommended use	Quantity	Cat. no. (standard)	Quantity	Cat. no. (LinerGOLD)
Straight	4	Quartz wool	Split injection	5/pack	453A2265	5/pack	453A2265-UI
				25/pack	453A1262	25/pack	453A1262-UI
Focus/precision liner	4	Quartz wool	Split injection with high repeatability, or injection with nano volume syringes	5/pack	453A1255	5/pack	453A1255-UI
				25/pack	453A1252	25/pack	453A1252-UI
Straight, split cyclo	4	No	Split injection with high repeatability, ideal for components interact with wool or wool can't be used	—	—	5/pack	453A1375-UI
Direct straight liner	1.2	No	Headspace, SPME Fiber, Purge-and-trap	5/pack	453A1335	5/pack	453A1335-UI
Direct straight liner	1.7	No	SPME Arrow	3/pack	453A0415	5/pack	453A0415-UI
Single taper	4	Quartz wool	Splitless injection with high repeatability	5/pack	453A1925	5/pack	453A1925-UI
				25/pack	453A2295	25/pack	453A2922-UI
Single taper	4	No	Splitless injection, ideal for components interact with wool or wool can't be used	5/pack	453A1345	5/pack	453A1345-UI
				25/pack	453A2342	25/pack	453A2342-UI

Note: Liner length is 78.5 mm
More liner types are available. Find out more at thermofisher.com/gcparts and the GC columns and accessories catalog.

Thermo Scientific™ liner seal for iConnect SSL injector module

Description	Quantity	Cat. no.
Liner sealing ring for SSL injector module	5/pack	29001320
Liner sealing ring for SSL purge and trap adapter	Each	MI-290AA1-0001

Thermo Scientific™ base seals with washers for iConnect SSL injector module

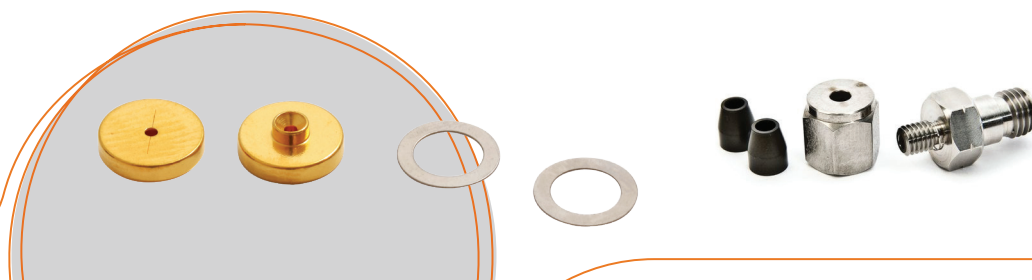| Description	ID (mm)	Recommended use	Quantity	Cat. no.
Gold plated	0.8	Single column installation. Splitless injection	10/pack	290GA081
			2/pack	290GA082
Gold plated, cross	0.8	Single column Installation. Split, splitless, SPME, P&T and headspace	10/pack	290GA084
			2/pack	290GA083
Siltek-treated	0.8	Single column installation. Splitless injection	10/pack	290GA091
			2/pack	290GA092
Siltek-treated, cross	0.8	Single column installation. Split, splitless, SPME, P&T and headspace	10/pack	290GA094

Thermo Scientific™ ferrules and nuts for iConnect SSL injector module and Thermo Scientific™ iConnect™ FID, TCD, ECD, NPD, FPD Detectors

Description	Recommended use	Quantity	Cat. no. (ferrule)	Quantity	Cat. no. (nut)
Graphite ferrule	0.1-0.32 mm ID column	10/pack	290GA139	5/pack	35050458
	0.45-0.53 mm ID column	10/pack	290GA140	5/pack	35050458
Graphite/ vespel ferrule	0.1-0.25 mm ID column	10/pack	290VA191*	5/pack	35050458
	0.32 mm ID column	10/pack	290VA192*	5/pack	35050458
	0.53 mm ID column	10/pack	290VA193*	5/pack	35050458
SCP-5000	0.1-0.25 mm ID column	5/pack	290VT221*	5/pack	35050458

*Compatible with Spring Loaded Transfer Nut (Cat. no. 1R120434-0010) for MS interface line

Thermo Scientific™ ferrules and nuts for iConnect SSL injector module with Thermo Scientific™ HeSaver-H$_2$Safer™ Kit

Description	Recommended use	Quantity	Cat. no. (ferrule)	Quantity	Cat. no. (nut)
SilTite FingerTite ferrules 0.35 mm ID	≤ 0.25 mm ID column	10/pack	29063465	2/pack	290SF303
SilTite FingerTite ferrules 0.4 mm ID	0.25 mm ID column	10/pack	29063466	2/pack	290SF303
SilTite FingerTite ferrules	0.32 mm ID column	10/pack	29063467	2/pack	290SF303
SilTite FingerTite PRE-SWAGE tool	All ferrules above	—	—	Each	MI-311AE1-0001

Injection ports
continued

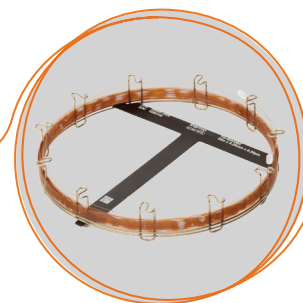Septum

Liner and liner seal

Silver seal

Ferrule and nuts
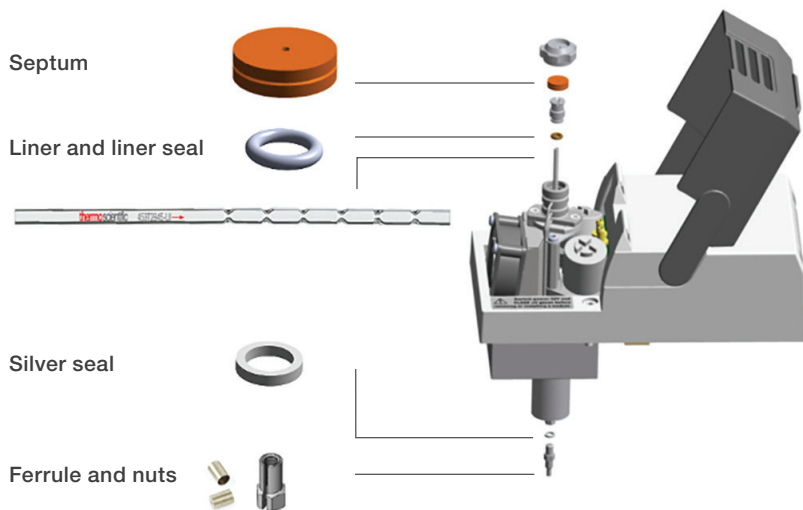
iConnect PTV injector module

Thermo Scientific™ inlet septa for Thermo Scientific™ iConnect™ Programmable Temperature Vaporizer (PTV) Injector Module

Description	ID (mm)	Recommended use	Quantity	Cat. no.
BTO	11	Low bleed at high temperature, ideal for GC-MS. Maximum temperature 400 °C	50/blister pack	31303233-BP
			50/glass jar	31303233
TR-green	11	Low coring. Maximum temperature 350 °C	50/blister pack	313G3230-BP
			50/glass jar	313G3230
Marathon	11	Highly durable, ideal for SPME. Maximum temperature 350 °C	50/blister pack	313P3233-BP
			50/glass jar	313P3233
TR-blue	11	General purpose. Maximum temperature 250 °C	50/glass jar	313B3233

Injection ports

Thermo Scientific™ liners for iConnect PTV injector module

Liner type	ID (mm)	Packing	Recommended use	Quantity	Cat. no.
Concentric baffle	2	No	PTV splitless injection (< 2 µL). General applications, pesticides analysis	5/pack	453T2845-UI
Five baffles	1	No	PTV splitless/split Injection (< 2 µL). Active compounds. Medium/high boiling point solvent	5/pack	453T2171-UI
Siltek baffle	2	No	PTV splitless injection (< 2 µL). Active compounds	5/pack	453T2120
Recessed gooseneck	2	Wool	PTV splitless/split injection (< 2 µL) for polar solvents, (<10 µL) for apolar solvents	5/pack	45352070
Straight liner	1	No	PTV splitless injection (< 1 µL). High molecular weight compounds	5/pack	45352054
Siltek straight metal	2	No	PTV splitless injection (< 1 µL) high temp applications (350-450 °C), i.e. SIMDIST	2/pack	45322044
Siltek straight metal	2	Wool	Large volume injection (> 10 µL)	2/pack	45322056
Sintered lining	1	No	Large volume injection (> 10 µL). Active compounds, thermally labile compounds	5/pack	45352060
Silcosteel for OC	1	No	On-column injection. Thermally labile compounds, wide boiling point compounds	2/pack	45322052

Note: Liner length is 120 mm
More liner types are available. Find out more at thermofisher.com/gcparts and the GC columns and accessories catalog.

Injection ports

Thermo Scientific™ liner seals for iConnect PTV injector module

Description	Quantity	Cat. no.
Liner sealing ring for PTV injector	Each	29001318

Thermo Scientific™ seals for iConnect PTV injector module

Description	Recommended use	Quantity	Cat. no.
Silver seal	Single column installation	2/pack	29013820

Thermo Scientific™ ferrules and nuts for iConnect PTV injector module

Description	Recommended use	Quantity	Cat. no. (ferrule)	Quantity	Cat. no. (nut)
Encapsulated graphite ferrule	0.1-0.25 mm ID column	10/pack	29053488	5/pack	35053221
	0.32 mm ID column	10/pack	29053487	5/pack	35053221
	0.53 mm ID column	10/pack	29053486	5/pack	35053221

Note: Ferrules and nuts are compatible with TSI injector

Mass spectrometer transfer line connections

Thermo Scientific™ ferrules and nuts for MS interface line

Description	Recommended use	Quantity	Cat. no. (ferrule)	Quantity	Cat. no. (nut)
Graphite/vespel ferrule	0.1-0.25 mm ID column	10/pack	290VA191	Each	1R120434-0010
	0.32 mm ID column	10/pack	290VA192	Each	1R120434-0010
	0.53 mm ID column	10/pack	290VA193	Each	1R120434-0010
SCP-5000	0.1-0.25 mm ID column for high temp	5/pack	290VT221	Each	1R120434-0010
Graphite/vespel ferrule	0.1-0.25 mm ID column	10/pack	29033496	5/pack	290BT240
	0.32 mm ID column	10/pack	29033497	5/pack	290BT240
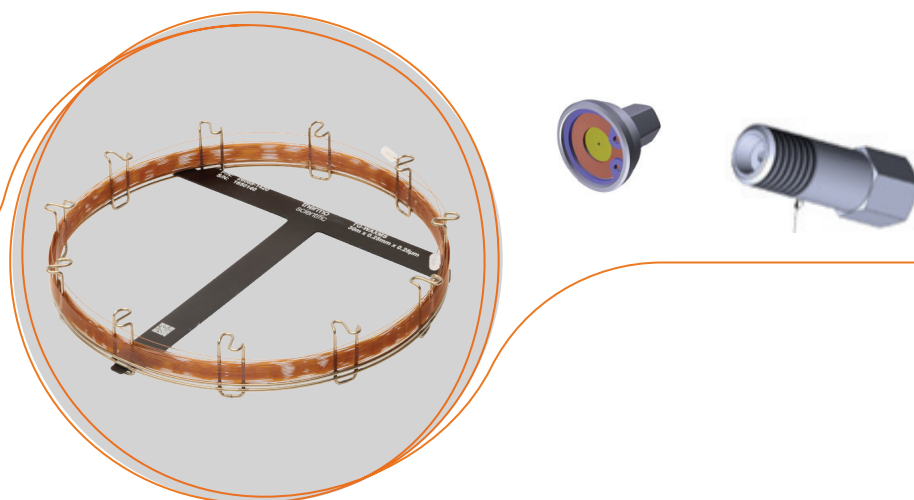
Gas management

Thermo Scientific™ Super Clean™ Cartridge Gas Filters

Description	Recommended use	Base included	Quantity	Cat. no.
Indicating triple filter Moisture, oxygen, hydrocarbons	GC, GC-MS (carrier gas)	No	Each	**60180-824**
Indicating triple filter Moisture, oxygen, hydrocarbons	GC, GC-MS (carrier gas)	Yes	Each	**60180-830**
Indicating triple filter Moisture, oxygen, hydrocarbons-helium preconditioned	GC-MS, GC Eliminate stabilization time when using helium as carrier gas	No	Each	**60180-825**
Indicating triple filter Moisture, oxygen, hydrocarbons-helium preconditioned	GC-MS, GC Eliminate stabilization time when using helium as carrier gas	Yes	Each	**60180-829**
Single base	Easy and fast replacement of super clean cartridge filters	—	Each	**60180-814**
Indicating filter kit (1× triple filter for carrier gas and make-up gas; 2× combi moisture/hydrocarbons filters for H_2 and air)	GC-FID/NPD/FPD (PFPD)	Yes	Each	**60180-828**
Indicating triple filter with baseplate	GC-TCD, GC-ECD*	Yes	Each	**60180-830**

* 2× 60180-830 is required for GC-ECD if the carrier gas and make-up gas are different.

Thermo Scientific™ Click-On™ Inline Gas Filters

Description	Recommended use	Quantity	Cat. no.
Triple filter Moisture, oxygen, hydrocarbons	ICP-MS, GC	Each	**60180-805**
Triple filter Moisture, oxygen, hydrocarbons- helium preconditioned	GC-MS, GC Eliminate stabilization time when using helium as carrier gas	Each	**60180-806**
Combi Moisture, hydrocarbons	ICP-MS	Each	**60180-843**
Steel end fitting, 0.125 in. (1/8'')	Easy and fast replacement of Click-On inline filter	2/pack	**60180-810**

Description	Recommended use	Cat. no. (filter)	Cat. no (end fitting)*
1× triple filter for carrier gas and **3× combi moisture/hydrocarbons filters** for H_2, air and make-up gas	GC-FID/NPD/FPD (PFPD)	1× **60180-805** 3× **60180-843**	4× **60180-809****
1× triple filter	GC-TCD, GC-ECD (carrier gas and make-up gas are the same)	1× **60180-805**	1× **60180-809**
1× triple filter for carrier gas and **1× combi moisture/oxygen filter** for make-up gas	GC-ECD (carrier gas and make-up gas are different)	1× **60180-805** 1× **60180-804**	2× **60180-809**

*End fittings are reusable
** 1/8'' brass. More end fittings and gas filters are available. Find out more at thermofisher.com/gcparts and the GC columns and accessories catalog.

Equipment and kit

Description	Quantity	Cat. no.
Thermo Scientific™ GFM Pro Gas Flowmeter	Each	**66002-010**
Thermo Scientific™ GLD Pro Gas Leak Detector	Each	**66002-004**
GC installation kit	Each	**60180-888**

GC columns

Thermo Scientific™ application-specific GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-PBDE	0.25	15	0.10	26061-0350
TG-PAH	0.25	60	0.10	26055-0120
TG-Dioxin	0.25	60	0.25	26066-1540
TR-PCB 8MS	0.25	50	0.25	26AJ148P
TR-Pesticide II	0.25	30 + 5 (guard)	0.25	26RD142F
TG-VMS GC	0.18	20	1.00	26080-4950
TG-VVOC B	0.32	60	5.00	26058-5180
TR-FAME	0.25	100	0.20	260M238P
TR-FFAP	0.25	30	0.25	260N142P
TR-DoA5	0.25	15	0.25	26AF130P
TG-ALC Plus I	0.32	30	1.80	26063-3390
TG-OCP I	0.32	30	0.32	26078-5760
TG-OPP I	0.32	30	0.50	26076-2240
TG-Mineral Oil	0.32	15	0.15	26069-5230

More phases, dimensions, lengths, and film thicknesses are available. Find out more about application-specific GC columns.

Thermo Scientific™ non-polar GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-1MS	0.25	30	0.25	26099-1420
TG-1MS	0.32	30	0.25	26099-1430
TG-1MT (metal)	0.53	5	0.10	26M99-4130

More phases, dimensions, lengths, and film thicknesses are available. Find out more about non-polar GC columns.

Thermo Scientific™ low-polar GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-5SilMS	0.25	30	0.25	26096-1420
TG-5SilMS	0.25	30 + 5 (Guard)	0.25	26096-1425
TG-5MS	0.32	30	0.25	26098-1430
TG-5MT (metal)	0.25	30	0.25	26M98-1420
TG-5MS AMINE	0.25	30	0.25	26097-1420
TG-XLBMS	0.25	30	0.25	26079-1420

More phases, dimensions, lengths, and film thicknesses are available. Find out more about low-polar GC columns.

GC columns

Thermo Scientific™ mid-polar GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-1701MS	0.25	30	0.25	26090-1420
TG-1701MS	0.32	30	0.25	26090-1430
TG-17SilMS	0.25	30	0.25	26072-1420
TG-624SilMS	0.32	30	1.80	26059-3390
TG-624SilMS	0.25	30	1.40	26059-3320
TG-1301MS	0.25	30	0.25	26091-1420
TG-35MS	0.25	30	0.25	26094-1420
TG-225MS	0.25	30	0.25	26083-1420

More phases, dimensions, lengths, and film thicknesses are available. Find out more about mid-polar GC columns.

Thermo Scientific™ polar GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-WaxMS	0.25	30	0.25	26088-1420
TG-WaxMS	0.32	30	0.25	26088-1430
TG-WaxMS A	0.25	30	0.25	26087-1420
TG-WaxMS B	0.25	30	0.25	26086-1420
TG-POLAR	0.25	60	0.20	26082-5020

More phases, dimensions, lengths, and film thicknesses are available. Find out more about polar GC columns.

Thermo Scientific™ TracePLOT™ GC columns

Description	ID (mm)	Length (m)	Film thickness (µm)	Cat. no.
TG-BOND Alumina (Na_2SO_4)	0.32	50	5	26001-6050
TG-BOND Q	0.32	30	10	26004-6030
TG-BOND Q+	0.32	30	10	26005-6030
TG-BOND Sieve 5A	0.32	30	30	26003-6040

More phases, dimensions, lengths, and film thicknesses are available. Find out more about PLOT columns.

GC column connectors

Thermo Scientific™ capillary guard columns

Description	ID (mm)	Length (m)	Recommended use	Cat. no.
Thermo Scientific™ GuardGOLD™ columns	0.53	2	Protects against the analytical column contamination, focuses target analytes for better peak shape	26050-0253
	0.32	2		26050-0232
Thermo Scientific™ HydroGOLD™ columns	0.53	5	Connecting GC to other devices, i.e. purge-and-trap, headspace, TD	26H50-0553
	0.32	5		26H50-0532

More column dimensions and lengths are available. Find out more from the GC columns and accessories catalog.

Thermo Scientific™ SilFlow™ Devices (Microfluidics)

Description	Recommended use	Quantity	Cat. no.
5-Port SilFlow MCD	Dean switch, 2D GC	Each	60201-389
3-Port SilFlow MCD	Backflush with 0.32 mm ID pre-column	Each	60201-396
	Backflush with 0.53 mm ID pre-column	Each	60201-397
	Splitter, i.e. dual detectors	Each	60201-398
SilTite FingerTite ferrules	< or = 0.25 mm ID column	10/pack	29063465
	0.25 mm ID column	10/pack	29063466
	0.32 mm ID column	10/pack	29063467
FingerTite nuts	—	10/pack	290SF302
Deactivated pre-column kit	Backflush with 0.53 mm ID pre-column for 60201-396 microfluidic	Each	60201-387

More parts are available. Find out more from the GC columns and accessories catalog.

SilTite unions

Description	1st column ID (mm)	2nd column ID (mm)	Recommended use	Cat. no.
SilTite µ-Union kit	0.1-0.25	0.1-0.25	Connecting capillary columns	290SM301
	0.1-0.25	0.32	Connecting guard column to analytical column	290SM302
	0.1-0.25	0.53	Connecting guard column to analytical column	290SM303

More parts are available. Find out more from the GC columns and accessories catalog.
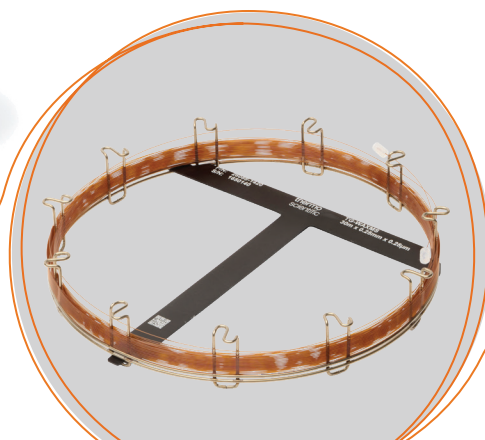
Sample handling

Thermo Scientific™ SureSTART™ vials and caps

Description	Recommended use	Quantity	Cat. no.
Vials and closures			
Amber crimp microvial	Low volume liquid injection. Light sensitive samples	100/pack	6PCV1103FIVAP
Amber screw microvial	Low volume liquid injection. Light sensitive samples	100/pack	6PSV9-03FIVAP
Amber crimp 2 mL vial	Liquid injection.Light sensitive samples	100/pack	6ACV11-2P
Amber screw 2 mL vial	Liquid Injection. Light sensitive samples	100/pack	6ASV9-2P
Thermo Scientific™ SureStop™ amber 2 mL vial	Liquid Injection. Light sensitive samples. High security	100/pack	6PSV9-2PSS
Clear crimp microvial	Low volume liquid injection	100/pack	6PCV11-03FIVP
Clear screw microvial	Low volume liquid injection	100/pack	6PSV9-03FIVP
Clear crimp 2 mL vial	Liquid Injection	100/pack	6ACV11-1P
Clear screw 2 mL vial	Liquid Injection	100/pack	6ASV9-1P
SureStop clear 2 mL vial	Liquid Injection. High security	100/pack	6PSV9-1PSS
Headspace vials			
Amber crimp 10 mL vial	Headspace. Light sensitive samples	100/pack	6ACV10-2R
Amber screw 10 mL vial	Headspace. Light sensitive samples	100/pack	6ASV10-2
Amber crimp 20 mL vial	Headspace. Light sensitive samples	100/pack	6ACV20-2PE
Amber screw 20 mL vial	Headspace. Light sensitive samples	100/pack	6ASV20-2
Clear crimp 9.5 mL vial	Headspace	100/pack	6PCV10-V1
Clear crimp 10 mL vial	Headspace	100/pack	6ACV10-1R
Clear screw 10 mL vial	Headspace	100/pack	6ASV10-1
Clear crimp 20 mL vial	Headspace	100/pack	6PCV20-1R
Clear screw 20 mL vial	Headspace	100/pack	6ASV20-1
Caps			
Crimp cap, 11 mm	General purpose crimp seals	100/pack	6ACC11RT1
Crimp cap, 11 mm	High sensitivity. MS compatible septa	100/pack	6PCC11ST101
Thermo Scientific™ AVCS™ screw cap, 9 mm	High sensitivity	100/pack	6ASC9ST1
Screw cap, 9 mm	High sensitivity	100/pack	6PMSC9ST1
AVCS screw cap, 9 mm	High sensitivity. MS compatible septa	100/pack	6PSC9ST101
Headspace caps			
Crimp cap, 20 mm	Magnetic transfer cap for headspace injection	100/pack	6PBCC20-ST3
Screw cap, 18 mm	Magnetic transfer cap for headspace injection	100/pack	6PMSC18-ST2
Crimp cap, 20 mm	Magnetic transfer cap. High temperature injection	100/pack	6PBCC20-STH
Crimp cap, 20 mm	Magnetic transfer cap. Thin seal for SPME injection	100/pack	6PBCC20-STME
Screw cap, 18 mm	Magnetic transfer cap. High temperature injection	100/pack	6PMSC18-STH

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