

# BGB<sup>®</sup>












## GC Liners, Ferrules and Septa




- High Inert Deactivated Liners
- Precision formed Ferrules & Seals
- Premium Septa - BTO, Advanced Green 3, Marathon & Silicone Pure
- Tools, Nuts and more...











## Deactivated Splitless Liners for Agilent Instruments

column end this side	Description	Benefits/Uses	Similar to Agilent #	Part No.	Qty.
	 Splitless Liner 2.0mm ID, 6.5 x 78.5mm	trace samples <2µl	5181-8818, 5183-4703 5183-4704	LS1104 LS1104-5	ea. pk.5
	 Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace samples >2µl	210-3003 210-3003-5	LS1105 LS1105-5	ea. pk.5
	 Splitless Liner with Wool, 4.0mm ID, 6.5 x 78.5mm	trace samples >2µl	-	LS1106 LS1106-5	ea. pk.5
	 Single Gooseneck Splitless Liner, 2.0mm ID, 6.5 x 78.5mm	trace samples <2µl	-	LS1103 LS1103-5	ea. pk.5
	 Single Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace samples >2µl	5181-3316, 5183-4695 5183-4696, 5190-2270	LS1100 LS1100-5	ea. pk.5
	 Single Gooseneck Splitless Liner with Wool, 4.0mm ID, 6.5 x 78.5mm	trace samples >2µl	5062-3587, 5183-4693 5183-4694, 5190-2271	LS1101 LS1101-5	ea. pk.5
	 Double Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace, active samples >2µl	5181-3315, 5183-4705 5183-4706, 5190-2272	LS1102 LS1102-5	ea. pk.5
	 Double Gooseneck Cyclo Splitless Liner, 2.0mm ID, 6.5 x 78.5mm	trace, active, dirty samples <2µl	-	LS1107 LS1107-5	ea. pk.5
	 Double Gooseneck Cyclo Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace, active, dirty samples >2µl	-	LS1108 LS1108-5	ea. pk.5





## Deactivated PTV Liners for Agilent Instruments

column end this side	Description	Benefits/Uses	Similar to Agilent #	Part No.	Qty.
	 PTV Liner, straight glass, 2.0mm ID, 3.0 x 71mm	general use	5183-2036	LS1200 LS1200-5	ea. pk.5
	 PTV Liner, baffled glass, 1.5mm ID, 3.0 x 71mm	active compounds, drugs, pesticides	5183-2037	LS1201 LS1201-5	ea. pk.5
	 PTV Liner, glass with wool, 2.0mm ID, 3.0 x 71mm	large volume injections	5183-2038	LS1202 LS1202-5	ea. pk.5






## Deactivated Split Liners for Agilent Instruments

column end this side	Description	Benefits/Uses	Similar to Agilent #	Part No.	Qty.
	 Split Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	universal	19251-60540, 5183-4691 5183-4692	LS1000 LS1000-5	ea. pk.5
	 Cup Splitter Liner, 4.0mm ID, 6.3 x 78.5mm	high & low MW compounds	18740-80190, 5183-4699 5183-4700	LS1001 LS1001-5	ea. pk.5
	 Cyclosplitter Liner, 4.0mm ID, 6.3 x 78.5mm	dirty samples	-	LS1002 LS1002-5	ea. pk.5
	 Split Precision Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	dirty samples, trace samples	210-4004-5	LS1003 LS1003-5	ea. pk.5
	 Single Gooseneck Precision Split Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	dirty samples, trace samples	210-4022-5	LS1004 LS1004-5	ea. pk.5
	 Low Pressure Drop Single Gooseneck Precision Split Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	universal	-	LS1005 LS1005-5	ea. pk.5
	 Low Pressure Drop Split Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	universal	5183-4647, 5183-4701 5183-4702, 5183-4711 5183-4712, 5183-4713	LS1006 LS1006-5	ea. pk.5
	 SPME Split Liner, 0.75mm ID, 6.3 x 78.5mm	ideal for low-volume SPME applications	-	LS1007 LS1007-5	ea. pk.5



## Inlet Seals, Capillary Column Nuts and MSD Source Nuts for Agilent Instruments

	Description	Similar to Agilent #	Part No.	Qty.
	Agilent Gold-plated Inlet Seal (incl. Washer), 0.8mm hole	18740-20885 5188-5367	LS9000 LS9000-5	ea. pk.5
	Agilent Stainless Steel Inlet Seal (incl. Washer), 0.8mm Opening	18740-20880	LS9001 LS9001-5	ea. pk.5
	Agilent Capillary Column Nut, SS, for use with „Compact“ Ferrules	5181-8830	LS9002 LS9002-5	ea. pk.5
	Agilent Capillary Column Nut, SS, for use with Standard 1/16“ Ferrules	05921-21170	LS9003 LS9003-5	ea. pk.5
	Agilent MSD Source Nut	05988-20066	LS9004 LS9004-5	ea. pk.5



## Deactivated Liners for Bruker/Varian 1177 S/SL Injector

column end this side	Description	Benefits/Uses	Similar to Bruker/Varian #	Part No.	Qty.
	 Split Liner with Frit, 4.0mm ID, 6.3 x 78.5mm	universal	-	LS3000 LS3000-5	ea. pk.5
	 Split Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	universal	392611934	LS3001 LS3001-5	ea. pk.5
	 Split Precision Liner with Wool, 4.0mm ID, 6.3 x 78.5mm	dirty samples trace samples	-	LS3002 LS3002-5	ea. pk.5
	 Single Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace samples <2µl	392611927	LS3003 LS3003-5	ea. pk.5
	 Single Gooseneck Splitless Liner with Wool, 4.0mm ID, 6.5 x 78.5mm	trace samples <2µl	392611928	LS3004 LS3004-5	ea. pk.5
	 Double Gooseneck Splitless Liner, 4.0mm ID, 6.5 x 78.5mm	trace, active samples <2µl	392611929	LS3005 LS3005-5	ea. pk.5
	 Low Pressure Drop Precision Liner with Wool, 2.0mm ID, 6.3 x 78.5mm	trace samples <2µl, dirty samples	-	LS3006 LS3006-5	ea. pk.5
	 Splitless Liner with Wool, 2.0mm ID, 6.5 x 78.5mm	trace samples <2µl	392599903	LS3007 LS3007-5	ea. pk.5







## Deactivated Liners for Bruker/Varian SPI S/SL Injector

column end this side	Description	Benefits/Uses	Similar to Bruker/Varian #	Part No.	Qty.
	 Liner 0.53mm, 4.6 x 54mm	high linearity for 0.25 & 0.32mm ID columns	190010906	LS3200 LS3200-5	ea. pk.5
 Liner 0.8mm, 4.6 x 54mm	high linearity for 0.53mm ID columns	190010907	LS3201 LS3201-5	ea. pk.5	

## Capillary Nuts for Bruker/Varian Instruments

Description	Similar to Bruker/Varian #	Part No.	Qty.
 Bruker/Varian Capillary Nuts, Brass	03-949551-00 394955100	LS9006 LS9006-5	ea. pk.5
 Bruker/Varian Capillary Nuts, Stainless Steel	03-949551-00 394955100	LS9007 LS9007-5	ea. pk.5

## Deactivated Liners for Bruker/Varian 1078/1079 Injector

column end this side	Description	Benefits/Uses	Similar to Bruker/Varian #	Part No.	Qty.
	 Split Liner with Frit, 3.4mm ID, 5.0 x 54mm	dirty samples, non-active compounds	392611946	LS3100 LS3100-5	ea. pk.5
	 Splitless Liner, 2mm ID, 5.0 x 54mm	trace samples <2µl	392611947	LS3101 LS3101-5	ea. pk.5
	 Open Liner, 0.5mm ID, 5.0 x 54mm	trace samples <1µl	392611949	LS3102 LS3102-5	ea. pk.5
	 Open Liner, 0.75mm ID, 5.0 x 54mm	trace, low volume samples	392611948	LS3103 LS3103-5	ea. pk.5
	 Split Liner (without Frit), 3.4mm ID, 5.0 x 54mm	active samples	392611945	LS3104 LS3104-5	ea. pk.5
	 Split Precision Liner with Wool, 3.4mm ID, 5.0 x 54mm	dirty samples, trace samples	-	LS3105 LS3105-5	ea. pk.5

## Injector Liner Cleaning Kit

This kit includes four sizes of nylon brush to clean most liners and one foot of pipe cleaner.



Part No.	Description	Qty.
ILCK	Injector Liner Cleaning Kit	ea.

## Injection Port Cleaning Kit

Kit contains three stainless steel brushes, 5mm for Shimadzu, 1/4" and 3/8", and one scraper for removing septum residue.



Part No.	Description	Qty.
IPCK	Injection Port Cleaning Kit	ea.












## Fine Wire Kit

The kit contains a pin vise and 30 stainless steel wires. The Fine Wire Kit lets you clean many small items around the lab.





Part No.	Description	Qty.
FWK	Fine Wire Kit	ea.









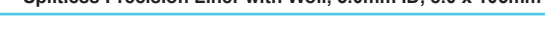
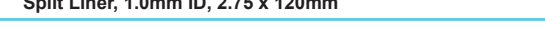
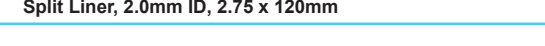
## Deactivated Split and Splitless Liners for Bruker/Varian 1075/1077 S/SL Injector

	Description	Benefits/Uses	Similar to Bruker/Varian #	Part No.	Qty.
column end this side	 Split Liner, 1mm ID, 6.3 x 72mm	purge & trap inlet splitting or samples <1µl	-	LS3400 LS3400-5	ea. pk.5
	 Split Liner with Wool, 4mm ID, 6.3 x 72mm	universal	190010901	LS3401 LS3401-5	ea. pk.5
	 Cup Splitter, 4mm ID, 6.3 x 72mm	high & low MW compounds	-	LS3402 LS3402-5	ea. pk.5
	 Cyclo Splitter, 4mm ID, 6.3 x 72mm	dirty samples	-	LS3403 LS3403-5	ea. pk.5
	 Split Liner with Frit, 4mm ID, 6.3 x 72mm	dirty samples, non-active compounds	190010903	LS3404 LS3404-5	ea. pk.5
	 Split Precision Liner with Wool, 4mm ID, 6.3 x 72mm	dirty samples, active samples	-	LS3405 LS3405-5	ea. pk.5
column end this side	 Splitless Liner, 2mm ID, 6.3 x 74mm	trace samples <2µl	190010905	LS3300 LS3300-5	ea. pk.5
	 Splitless Liner, 4mm ID, 6.3 x 74mm	trace samples >2µl	-	LS3301 LS3301-5	ea. pk.5
	 SPME Liner, 0.75mm ID, 6.3 x 74mm	ideal for low-volume SPME applications	-	LS3302 LS3302-5	ea. pk.5
	 Double Gooseneck Splitless Liner, 4mm ID, 6.3 x 74mm	trace, active samples up to 4µl	-	LS3303 LS3303-5	ea. pk.5
	 Double Gooseneck Cyclo Splitless Liner, 4mm ID, 6.3 x 74mm	trace, dirty, active samples up to 4µl	-	LS3304 LS3304-5	ea. pk.5




## Capillary Nuts for Bruker/Varian Instruments

	Description	Similar to Bruker/Varian #	Part No.	Qty.
	Bruker/Varian Capillary Nuts, Brass	03-949551-00 394955100	LS9006 LS9006-5	ea. pk.5
	Bruker/Varian Capillary Nuts, Stainless Steel	03-949551-00 394955100	LS9007 LS9007-5	ea. pk.5

## Deactivated Split and Splittless Liners for Thermo Scientific Instruments

column end this side	Description	Benefits/Uses	Similar to Thermo Scientific #	Part No.	Qty.
	 Split Liner, 1.0mm ID, 8.0 x 105mm	purge & trap & fast GC	45320075	LS2000 LS2000-5	ea. pk.5
	 Split Liner, 3.0mm ID, 8.0 x 105mm	universal	45320031	LS2001 LS2001-5	ea. pk.5
	 Split Liner, 5.0mm ID, 8.0 x 105mm	universal	45320030	LS2002 LS2002-5	ea. pk.5
	 Split Precision Liner with Woll, 5.0mm ID, 8.0 x 105mm	dirty samples, trace samples	-	LS2003 LS2003-5	ea. pk.5
	 Splittless Liner, 2.0mm ID, 8.0 x 105mm	trace samples SPME	-	LS2103 LS2103-5	ea. pk.5
	 Splittless Liner, 3.0mm ID, 8.0 x 105mm	trace samples	45320032	LS2100 LS2100-5	ea. pk.5
	 Splittless Liner, 5.0mm ID, 8.0 x 105mm	trace samples	45320033	LS2101 LS2101-5	ea. pk.5
	 Splittless Precision Liner with Woll, 5.0mm ID, 8.0 x 105mm	dirty samples, trace samples	-	LS2102 LS2102-5	ea. pk.5
	 Split Liner, 1.0mm ID, 2.75 x 120mm	trace samples, high recovery&linearity	45322054	LS2200 LS2200-5	ea. pk.5
 Split Liner, 2.0mm ID, 2.75 x 120mm	universal	45322045	LS2201 LS2201-5	ea. pk.5	
 Baffle Liner, 2.0mm ID, 2.75 x 120mm	trace samples	-	LS2202 LS2202-5	ea. pk.5	

## Inlet Sealing Ring, Fixing Nut and Cup Ferrules for Thermo Scientific Instruments

	Description	Similar to Thermo Scientific #	Part No.	Qty.
	Inlet Liner Ring for SSL Injector	29033406	29033406	pk.2
	Inlet Liner Ring for PTV Injector	29013417	29013417	pk.2
	Thermo Fixing Nut for Capillary Column	35032423	LS9005 LS9005-5	ea. pk.5
	0.38mm ID Cup Ferrule for Thermo M4 nut	29053488	29013488	pk.10
	0.48mm ID Cup Ferrule for Thermo M4 nut	29053487	29013487	pk.10
	0.8mm ID Cup Ferrule for Thermo M4 nut	29053486	29013486	pk.10

## Graphite Ferrules

- Upper temperature limit 450°C
- High-purity Graphite - preferred for capillary GC use
- Ideal for glass-to-metal connections - doesn't stick to glass
- Precision formed - flash-free ID
- Reusable if not overtightened
- One-piece design requires no back ferrule



Standard 1/16"			Standard 1/8"		
Part No.	Description	Qty.	Part No.	Description	Qty.
G1604	1/16" x 0.4mm ID	pk.10	G1804	1/8" x 0.4mm ID	pk.10
G1625	1/16" x 0.5mm ID, 2-hole	pk.10	G1825	1/8" x 0.5mm ID, 2-hole	pk.10
G1605	1/16" x 0.5mm ID	pk.10	G1805	1/8" x 0.5mm ID	pk.10
G1608	1/16" x 0.8mm ID	pk.10	G1808	1/8" x 0.8mm ID	pk.10
G1610	1/16" x 1.0mm ID	pk.10	G1816	1/8" x 1/16" ID	pk.10
G1612	1/16" x 1.2mm ID	pk.10	G1818	1/8" x 1/8" ID	pk.10
G1616	1/16" x 1/16" ID	pk.10	G1800	1/8", no-hole	pk.10
G1600	1/16", no-hole	pk.10			

Standard 1/4"			Standard 3/8", 1/2" and 3/4" Ferrules		
Part No.	Description	Qty.	Part No.	Description	Qty.
G1405	1/4" x 0.5mm ID	pk.10	G3838	3/8" x 3/8" ID	pk.10
G1408	1/4" x 0.8mm ID	pk.10	G1212	1/2" x 1/2" ID	pk.5
G1416	1/4" x 1/16" ID	pk.10	G3434	3/4" x 3/4" ID	pk.5
G1414	1/4" x 1/4" ID	pk.10			
G1418	1/4" x 1/8" ID	pk.10			
G1440	1/4" x 4.0mm ID	pk.10			
G1460	1/4" x 6.0mm ID	pk.10			
G1400	1/4", no-hole	pk.10			

Agilent Short Ferrules			Thermo / Carlo Erba Ferrules		
Part No.	Description	Qty.	Part No.	Description	Qty.
G1604-HP	Short Ferrule, 1/16" x 0.4mm ID	pk.10	G1805-CE	0.5mm ID for M8-Nut (CE-Taper)	pk.10
G1605-HP	Short Ferrule, 1/16" x 0.5mm ID	pk.10	G1808-CE	0.8mm ID for M8-Nut (CE-Taper)	pk.10
G1608-HP	Short Ferrule, 1/16" x 0.8mm ID	pk.10			
G1610-HP	Short Ferrule, 1/16" x 1.0mm ID	pk.10			

Shimadzu Ferrules			Thermo / Carlo Erba Cup Ferrules		
Part No.	Description	Qty.	Part No.	Description	Qty.
GSH50 <sup>1)</sup>	5mm ID for Shimadzu	pk.10	29013489	0.28mm ID Cup Ferrule M4 nut	pk.10
GSH04 <sup>2)</sup>	0.4mm ID for Shimadzu 17A, 2010 & 2014	pk.10	29013488	0.38mm ID Cup Ferrule M4 nut	pk.10
GSH05 <sup>2)</sup>	0.5mm ID for Shimadzu 17A, 2010 & 2014	pk.10	29013487	0.48mm ID Cup Ferrule M4 nut	pk.10
GSH08 <sup>2)</sup>	0.8mm ID for Shimadzu 17A, 2010 & 2014	pk.10	29013486	0.80mm ID Cup Ferrule M4 nut	pk.10

## Ferrule Remover

Effective tool (2 piece) for removing ferrules from 0.4mm to 0.8mm ID.



Part No.	Description	Qty.
FR	Ferrule Remover	ea.



## Liner Seals and O-Rings

- Graphite and Fluoroelastomer Liner Seals



For Agilent Instruments			For Shimadzu Instruments		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
GS635-HP <sup>1)</sup>	Graphite Liner Seal, 6.35mm ID	pk.10	GSSH01 <sup>1)</sup>	Graphite Liner Seal	pk.10
GS652-HP <sup>1)</sup>	Graphite Liner Seal, 6.52mm ID	pk.10	GSSH02 <sup>2)</sup>	Graphite O-Ring, Split	pk.10
VS-HP <sup>2)</sup>	Viton O-Ring made of Fluoroelastomer	pk.12	GSSH03 <sup>2)</sup>	Graphite O-Ring, Splitless	pk.10
For Perkin Elmer			Thermo Scientific Instruments		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
GSPE01	Graphite O-Ring	pk.10	29013417 <sup>1)</sup>	Inlet Liner Ring for PTV Injector	pk.2
			29033406 <sup>2)</sup>	Inlet Liner Ring for SSL Injector	pk.2
For Varian 1078/1079					
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>			
GSBV01	Graphite Liner Ferrule	pk.10			

## Graphite/Vespel® Ferrules

- Upper Temperature limit is 400°C
- Made from quality DuPont polyimide/graphite blend
- Recommended for GC/MS interface applications
- One-piece design requires no back ferrule



Standard 1/16"			Standard 1/8"		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
GV1603	1/16" x 0.3mm ID	pk.10	GV1804	1/8" x 0.4mm ID	pk.10
GV1624	1/16" x 0.4mm ID, 2-hole	pk.10	GV1825	1/8" x 0.5mm ID, 2-hole	pk.10
GV1604	1/16" x 0.4mm ID	pk.10	GV1805	1/8" x 0.5mm ID	pk.10
GV1625	1/16" x 0.5mm ID, 2-hole	pk.10	GV1828	1/8" x 0.8mm ID, 2-hole	pk.10
GV1605	1/16" x 0.5mm ID	pk.10	GV1808	1/8" x 0.8mm ID	pk.10
GV1608	1/16" x 0.8mm ID	pk.10	GV1816	1/8" x 1/16" ID	pk.10
GV1610	1/16" x 1.0mm ID	pk.10	GV1818	1/8" x 1/8" ID	pk.10
GV1616	1/16" x 1/16" ID	pk.10	GV1800	1/8", no-hole	pk.10
GV1600	1/16", no-hole	pk.10			
Standard 1/4"			Agilent Short Ferrules		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
GV1405	1/4" x 0.5mm ID	pk.10	GV16035-HP	1/16" x 0.35mm ID	pk.10
GV1408	1/4" x 0.8mm ID	pk.10	GV1603-HP	1/16" x 0.3mm ID	pk.10
GV1416	1/4" x 1/16" ID	pk.10	GV16045-HP	1/16" x 0.45mm ID	pk.10
GV1414	1/4" x 1/4" ID	pk.10	GV1604-HP	1/16" x 0.4mm ID	pk.10
GV1418	1/4" x 1/8" ID	pk.10	GV1605-HP	1/16" x 0.5mm ID	pk.10
GV1460	1/4" x 6.0mm ID	pk.10	GV1607-HP	1/16" x 0.7mm ID	pk.10
GV1400	1/4", no-hole	pk.10	GV1608-HP	1/16" x 0.8mm ID	pk.10
Standard 1/2" Ferrules			Carlo Erba Ferrules		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
GV1212	1/2" x 1/2" ID	pk.5	29033461	0.4mm ID for M8-Nut (CE-Taper)	pk.10
			29033460	0.5mm ID for M8-Nut (CE-Taper)	pk.10
			29033471	0.8mm ID for M8-Nut (CE-Taper)	pk.10

# Ferrules

## Vespel® Ferrules

- Upper temperature limit 350°C
- 100% high-temperature DuPont polyimide
- Precision-drilled ID - no imperfections from moulding
- One-piece design requires no back ferrule
- Fairly hard - tends to seal permanently to the column



Standard 1/16"			Standard 1/8"		
Part No.	Description	Qty.	Part No.	Description	Qty.
V1603	1/16" x 0.3mm ID	pk.10	V1804	1/8" x 0.4mm ID	pk.10
V1624	1/16" x 0.4mm ID, 2-hole	pk.10	V1825	1/8" x 0.5mm ID, 2-hole	pk.10
V1604	1/16" x 0.4mm ID	pk.10	V1805	1/8" x 0.5mm ID	pk.10
V1625	1/16" x 0.5mm ID, 2-hole	pk.10	V1808	1/8" x 0.8mm ID	pk.10
V1605	1/16" x 0.5mm ID	pk.10	V1816	1/8" x 1/16" ID	pk.10
V1608	1/16" x 0.8mm ID	pk.10	V1818	1/8" x 1/8" ID	pk.10
V1610	1/16" x 1.0mm ID	pk.10	V1800	1/8", no-hole	pk.10
V1612	1/16" x 1.2mm ID	pk.10			
V1616	1/16" x 1/16" ID	pk.10			
V1600	1/16", no-hole	pk.10			

Standard 1/4"			Agilent Short Ferrules		
Part No.	Description	Qty.	Part No.	Description	Qty.
V1416	1/4" x 1/16" ID	pk.10	V1604-HP	1/16" x 0.4mm ID	pk.10
V1414	1/4" x 1/4" ID	pk.10	V1605-HP	1/16" x 0.5mm ID	pk.10
V1418	1/4" x 1/8" ID	pk.10	V1608-HP	1/16" x 0.8mm ID	pk.10
V1400	1/4", no-hole	pk.10			

## PTFE Ferrules

- Upper temperature limit 250°C
- 100% PTFE - completely inert
- One-piece design - requires no back ferrule



Standard 1/16"			Standard 1/8"		
Part No.	Description	Qty.	Part No.	Description	Qty.
T1603	1/16" x 0.3mm ID	pk.10	T1804	1/8" x 0.4mm ID	pk.10
T1604	1/16" x 0.4mm ID	pk.10	T1805	1/8" x 0.5mm ID	pk.10
T1605	1/16" x 0.5mm ID	pk.10	T1808	1/8" x 0.8mm ID	pk.10
T1608	1/16" x 0.8mm ID	pk.10	T1816	1/8" x 1/16" ID	pk.10
T1610	1/16" x 0.5mm ID	pk.10	T1818	1/8" x 1/8" ID	pk.10
T1612	1/16" x 1.2mm ID	pk.10	T1800	1/8", no-hole	pk.10
T1616	1/16" x 1/16" ID	pk.10			
T1600	1/16", no-hole	pk.10			

Standard 1/4"			Standard 3/16" Ferrules		
Part No.	Description	Qty.	Part No.	Description	Qty.
T1416	1/4" x 1/16" ID	pk.10	T316316	3/16" x 3/16" ID	pk.10
T1414	1/4" x 1/4" ID	pk.10			
T1418	1/4" x 1/8" ID	pk.10			
T14316	1/4" x 3/16" ID	pk.10			
T1400	1/4", no-hole	pk.10			

## Septa for GC Injectors

- Center point guides the needle for easy penetration
- Reduce needle bending
- Precision molding assures accurate fit
- Available in selected sizes of our premium septa
- Packaged in glass vials for high purity



Premium Septa Advanced Green 3			Premium Septa BTO		
<p>The Advanced Green 3 Septum was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. The result is a green septum you can use for all your critical analysis. Septa are 3mm thick, except Shimadzu-style plug.</p>			<p>Septa BTO® is <u>B</u>leed and <u>T</u>emperature <u>O</u>ptimized for today's most demanding GC and GC/MS applications. Septa BTO is formulated to extend low-bleed and outstanding mechanical properties of premium GC septa to the highest-temperature applications (400°C with most modern GCs).</p>		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
SA5	5mm CenterGuide	pk.50	SB5	5mm CenterGuide	pk.50
SA9	9mm CenterGuide	pk.50	SB64	6.4mm (1/4")	pk.50
SA95	9.5mm (3/8")	pk.50	SB9	9mm CenterGuide	pk.50
SA11	11mm (7/16") CenterGuide	pk.50	SB95	9.5mm (3/8")	pk.50
SA11-100	11mm (7/16") CenterGuide	pk.100	SB10	10mm	pk.50
SA115	11.5mm CenterGuide	pk.50	SB11	11mm (7/16") CenterGuide	pk.50
SA127	12.7mm (1/2") CenterGuide	pk.50	SB11-100	11mm (7/16") CenterGuide	pk.100
SA17	17mm	pk.50	SB115	11.5mm CenterGuide	pk.50
SAS	for Shimadzu	pk.50	SB127	12.7mm (1/2") CenterGuide	pk.50
			SB17	17mm CenterGuide	pk.50
			SBS	for Shimadzu	pk.50
Premium Septa Marathon			Premium Septa Silicone Pure		
<p>The Marathon septum typically achieves 400 injections without failure, when used with a rounded-tip (Agilent-style) needle and autosampler or needle guide. The CenterGuide versions of Marathon are pre-pierced to channel the needle through the same spot with each injection, which helps eliminate the common type of coring that occurs on the first injection. The Marathon septum is also ideal for standard manual-injection GC and GC/MS. Septa are 3mm thick, except Shimadzu-style plug septa.</p>			<p>The Silicone Pure Septum was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. Suitable for inlet temperatures of up to 340°C.</p>		
<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
SM5-50	5mm CenterGuide	pk.50	SS95	9.5mm	pk.25
SM9-50	9mm CenterGuide	pk.50	SS10	10mm	pk.25
SM11-50	11mm (7/16") CenterGuide	pk.50	SS11	11mm	pk.25
SM11-100	11mm (7/16") CenterGuide	pk.100	SS125	12.5mm	pk.25
SM115-50	11.5mm CenterGuide	pk.50	SS17	17mm	pk.25
SM127-50	12.7mm (1/2") CenterGuide	pk.50	SSS	for Shimadzu	pk.25
SM17-50	17mm	pk.50			
SMS-50	for Shimadzu	pk.50			

### Septa Pick

The Septa Pick is useful for removing small pieces of septa lodged in the threads and corners of the septum cap or injection port. It can also be used to remove small bits of graphite ferrule from the cap and fittings of column connectors.



Part No.	Description	Qty.
SP	Septa Pick	ea.

New



## Gas Leak Detector LD-1

Protect your Instrument and Analytical Column by using the Gas Leak Detector LD-1.

- small and light for easy handling
- most sensitive detector on the market
- detects up to 0.0005ml/min of helium gas
- optical and acoustic signal
- easy charging by USB port

Part No.	Description	Qty.
2702-19320	Gas Leak Detector LD-1	ea.

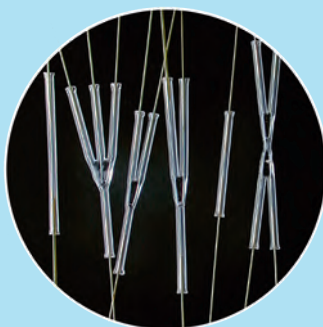
## also available...

BGB carries a full line of high quality products. Order our free brochure or visit [www.bgb-shop.com](http://www.bgb-shop.com).

### Vials and Accessories



### PressFit Connector and Splitter



### High Quality Syringe Filters

