

# HPLC Essentials

Genuine Restek Replacement Parts for HPLC Systems





**Becky Wittig**  
HPLC Products  
Marketing Manager  
4+ years of service!

## Genuine Restek Replacement Parts for HPLC Systems

- Designed to meet or exceed original equipment performance.
- Simplify ordering: obtain columns - parts - accessories - reference materials from one source.
- Renowned Restek Plus 1™ service.

Worn or contaminated parts contribute to poor chromatography and can shorten column lifetimes. To keep your system running smoothly, and your chromatography sharp, we carry a wide range of replacement parts for Agilent, Beckman, Hitachi, PerkinElmer, Shimadzu, Thermo Separation Products, and Waters instruments. If you don't find the item you need here, call us - we're regularly adding to our inventory.

### Restek Replacement Parts for Agilent HPLC Systems

Description	Model #	Similar to Agilent part #	qty.	cat.#
Preventive Maintenance Kit (Includes: rotor seal, needle seat, needle assembly, seat cap)	1050	01078-68721	kit	25259
Autosampler Preventive Maintenance Kit (Includes: rotor seal, needle assembly, needle seat)	1100	G1313-68709	kit	25271
Pump Maintenance Kit (Includes: PTFE frit, outlet cap, active inlet cartridge, gold disk seal, piston seals (2-pk.), glass solvent filter)	1050 & 1100	G1311-68710	kit	25270
Outlet Ball Valve, Binary Pump	1100	G1312-60012	ea.	25267
Outlet Ball Valve	1050 & 1100	G1311-60012	ea.	25276
Sieves for Outlet Valve	1050 & 1100	5063-6505	10-pk.	25266
Check Valve Cartridge Assembly	1090	79835-67101	ea.	25344
Piston Seals	1050 & 1100	5063-6589	2-pk.	25274
Piston Seals (Black)	1090	5062-2494	4-pk.	25347
Seal Wash Kit, Binary Pump (4 seals, 4 gaskets)	1100	—	kit	25268
Seal Wash Kit (2 seals, 2 gaskets)	1100	—	kit	25269
Wash Seal	1050 & 1100	0905-1175	ea.	25277
Sapphire Piston	1050 & 1100	5063-6586	ea.	25273
Sapphire Piston	1090	6980-0672	ea.	25345
Needle Seat	1050	79846-67101	ea.	25258
Needle Seat	1090	79846-67101	ea.	25348
Needle Seat Assembly	1100	G1313-87101	ea.	25265
Needle Assembly	1100	G1313-87201	ea.	25278
Rotor Seal (not for use with 7125 injection valve)	1050	0101-0626	ea.	25272
Rotor Seal	1100	0100-1853	ea.	25275
Rotor Seal (Rheodyne®-style)	1090	0101-0623	ea.	25349
Frits, PTFE	1050 & 1100	01018-22707	5-pk.	25466
Seal, Gold Disk	1050 & 1100	5001-3707	ea.	25467
Detector Lamp, 1090 DA, 1050 VW/DA/MWD	1090, 1050	79883-60002	ea.	25260
Lamp, DAD G1315A, G1365A	1100	2140-0590	ea.	25261
Lamp, VWD G1314A	1100	G1314-60100	ea.	25262
8453 Deuterium Lamp	—	2140-0605	ea.	25263
G1321 Fluorescence Detector Flash Lamp	—	2140-0600	ea.	25264
Lamp, DAD Long Life Deuterium (2000 hours)	1100	5181-1530	ea.	25399



### did you know?

Restek offers an expanded selection of Agilent & Waters replacement parts!



### free literature

**HPLC Column Selection Guide**  
Quickly scan for important characteristics of Restek HPLC columns. Includes brief, practical guidelines for choosing stationary phase, particle size, pore diameter, and column dimensions.

lit. cat.# 59454B

### Restek Replacement Parts for Beckman HPLC Systems

Description	Model #	Similar to Beckman part #	qty.	cat.#
Inlet Check Valve Assembly	110A&B, 112, 114M, 116, 118, 125, 126, 127, 128 Pumps	240720	ea.	25439
Outlet Check Valve Assembly	110A&B, 112, 114M, 116, 118, 125, 126, 127, 128 Pumps	240721	ea.	25440
Inlet Check Valve Cartridge for Check Valve Assembly	110A&B, 112, 114M, 116, 118, 125, 126, 127, 128 Pumps	240620	ea.	25441
Outlet Check Valve Cartridge for Check Valve Assembly	110A&B, 112, 114M, 116, 118, 125, 126, 127, 128 Pumps	240621	ea.	25442
Guide Sleeve for Graphite Plunger Guide	110 Series Pumps	243713	ea.	25444
Outlet Check Filter Frit Assembly	110 Series Pumps	240619	ea.	25445
Piston Guide Assembly	110 Series and 112 Pumps	243045	ea.	25446
Plunger	110 Series and 112 Pumps	243053	ea.	25447
Plunger Seal	110 Series Pumps	887138	ea.	25448
Plunger Seal	112 Pumps	236797	ea.	25449
Sapphire Plunger	114M, 116, 118, 125, 126, 127, 128 Pumps	240714	ea.	25450
Plunger Seal	114M, 116, 118, 126, 127, 128 Pumps	241037	ea.	25451
Pump Seal, Gold	114, 116, 125, 126, 127, 128 Pumps	241037	ea.	25452
Plunger Wash Seal	125, 126, 127, 128 Pumps	728772	ea.	25453
Deuterium Lamp	DU60, 62, 64, 65	596791	ea.	25454



## Restek Replacement Parts for Hitachi HPLC Systems

Description	Model #	Similar to Hitachi part #	qty.	cat.#
SS Check Valve Cartridges (1/16" Ruby Ball)	655/6000/6200	AN0-085	2-pk.	25455
Inlet Check Valve Assembly	655/6000/6200	AN0-0833	ea.	25456
Outlet Check Valve Assembly	655/6000/6200	AN0-0834	ea.	25457
Plunger Assembly	655, 6000, 6200, 7100	810-1033	ea.	25458
Plunger Seal	L655A, 6000, 6200, 7100	655-1080	ea.	25459
Plunger Seal, Gold	655, 6000, 6200, 7100	655-1080	ea.	25460
Inlet Check Valve Assembly	L-7100	AN0-0836	ea.	25461
Outlet Check Valve Assembly	L-7100	AN0-0837	ea.	25462
Rotor Assembly for Dilutor Valve	AS-7200 Autosampler	810-3085	ea.	25463
Rotor Seal Kit	AS-7200, AS-7250 Injection Valve	AN0-0818	ea.	25464
Deuterium Lamp, Prealigned	L4000, L4200, L4250, L7400	885-3570	ea.	25465



## Restek Replacement Parts for PerkinElmer HPLC Systems

Description	Model #	Similar to PerkinElmer part #	qty.	cat.#
Inlet Check Valve	PE 200, 4, 250, 400, 410, 620	2540177	ea.	25438
Outlet Check Valve	PE 200, 4, 250, 400, 410, 620	2540197	ea.	25437
High Pressure Seal Kit	PE Series 200 Pumps--1, 2, 3, 3B, 4, 10, 250, 400, 410, 620, Int. 4000 Pump	2540275	ea.	25433
Standard High Pressure Seal	PE Series 200 Pumps--1, 2, 3, 3B, 4, 10, 250, 400, 410, 620, Int. 4000 Pump	9907324	ea.	25434
Low Pressure Seal	PE Series 200 Pumps	9907339	ea.	25435
Needle	PE Series 200 Pumps	N2930023	ea.	25432
Deuterium Lamp	PE Lambda--2, 5, 7, 8, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 40, 800, 900	B0160917	ea.	25436
Deuterium Lamp	PE 200/785A	N2920149	ea.	25431



## Restek Replacement Parts for Shimadzu HPLC Systems

Description	Model #	Similar to Shimadzu part #	qty.	cat.#
Inlet Check Valve	LC-6A, LC-10AS	228-12353-91	ea.	25287
Inlet Check Valve	LC-600, LC-9A, LC-10AD	228-18522-91	ea.	25295
Outlet Check Valve	LC-6A, LC-10AS	228-09054-93	ea.	25288
Outlet Check Valve Rebuild Kit	LC-6A, LC-10AS	228-11200-91	2-pk.	25289
Outlet Check Valve	LC-600, LC-9A, LC-10AD	228-18522-92	ea.	25282
Plunger Seal	LC-6A	228-11999-00	ea.	25285
Plunger Seal, Polyethylene	LC-10AS	228-21975-00	ea.	25290
Plunger Seal	LC-600, LC-9A, LC-10AD	228-18745-00	ea.	25293
Plunger Rinse Seal	LC-10AS	228-28499-00	ea.	25292
Sapphire Plunger	LC-6A	228-12904-93	ea.	25286
Sapphire Plunger	LC-10AS	228-17019-93	ea.	25291
Sapphire Plunger	LC-600, LC-9A, LC-10AD	228-18523-91	ea.	25294
Needle Seal	SIL-10A, 10XL, 10ADvp	228-33355-04	ea.	25468
Rotor Seal Assembly	SIL-10A, 10AXL	228-21217-91	ea.	25469
Stator Assembly	SIL-10A, 10AXL	228-21220-91	ea.	25470
Syringe, 500µL	SIL-10A, 10AXL	228-25237-04	ea.	25471
Plunger Assembly, Ceramic	LC-10ADvp	228-35601-91	ea.	25472
Plunger Assembly, Ceramic	LC-10ATvp	228-35009-92	ea.	25473
Deuterium Lamp	SPD-6A	062-65056-02	ea.	25283
Deuterium Lamp	SPD-10A, 10AV	228-34016-02	ea.	25284



**Vern Bartlett**  
HPLC Innovations &  
Production Manager  
7+ years of service!



**Terry Reid**  
Technical Service  
Representative  
6+ years of service!

## Restek Replacement Parts for Thermo Separation Products HPLC Systems

Description	Model #	Similar to SP/TSP part #	qty.	cat.#
Inlet Check Valve Assembly	SP8800 & P-Series Pumps	A3495-010	ea.	25474
Outlet Check Valve Assembly	SP8800 Series Pumps	A3490-010	ea.	25475
Piston	SP8800 & P-Series Pumps	A3102-010	ea.	25476
Back-up Seal	SP8800 & P-Series Pumps	A2963-010	ea.	25477
Plunger Seal, Gold Superseal	SP8800 & P-Series Pumps	A2962-010	ea.	25478
Check Valve and Transducer Assembly	P-Series Pumps	A3990-010	ea.	25479
Kel-F Washer	P-Series Pumps	A2973-010	ea.	25480
Rotor Seal Assembly, Rheodyne® 7010	TSP AS100, 300, 1000, 3000, 3500, 8875, and 8880 Autosamplers	7010-039	ea.	25481
Syringe Assembly, 250µL	TSP AS100, 300, 1000, 3000, 3500, 8875, and 8880 Autosamplers	A3588-020	ea.	25482
Syringe, 500µL	TSP AS100, 300, 1000, 3000, 3500, 8875, and 8880 Autosamplers	A3588-010	ea.	25483
Lamp, UV	Linear UV-200, 203, 204, 205, 206, and UV 100, 150, 1000, and 2000 Detectors	9551-0023	ea.	25484
Description	Model #	Similar to TSP part #	qty.	cat.#
Check Valve Cartridge	LDC Constametric Pumps	900946	ea.	25485
Sapphire Plunger	LDC Constametric Pumps	801306	ea.	25486
Plunger Seal Kit, Gold	LDC Constametric Pumps	31-36-00754	ea.	25487
Plunger Seal, Black	LDC Constametric Pumps	206129001	ea.	25488
Plunger Seal, Gold	LDC Constametric Pumps	206156001	ea.	25489
Lamp, Deuterium	LDC SM-I, II, III, 3000, 3100, 3100X, and 4000 Detectors	108035	ea.	25490
Lamp, Deuterium Pre-aligned	LDC 3200 and 4100 Detectors	900918001	ea.	25491

## Restek Replacement Parts for Waters Detectors

Description	Model #	Similar to Waters™ part #	qty.	cat.#
Window Gasket	484, 486, 490	80335	ea.	25423
Lamp Side Gasket	484, 486, 490	80336	ea.	25424
Quartz Cell Window	484, 486, 490	97091	ea.	25425
Quartz Lens	486	80687	ea.	25427
Xenon Lamp (w/o holder or mirror)	470	—	ea.	25404
Xenon Lamp	474	—	ea.	25405
Deuterium Lamp (UV/Vis)	480, 481	99499	ea.	25403
Deuterium Lamp (UV/Vis)	484	80357	ea.	25406
Deuterium Lamp (UV/Vis)	486	80678	ea.	25407
Deuterium Lamp	996, 2996	WAT052586	ea.	25408
Deuterium Lamp	2487	WAS081142	ea.	25409
Deuterium Lamp, long life (2000 hours)	486	80678	ea.	25410

## Restek Rheodyne® Style Replacement Parts for Waters HPLC Systems

Description	Similar to Rheodyne® part #	qty.	cat.#
7010 Vespel® Rotor Seal	7010-039	ea.	25279
7125 Vespel® Rotor Seal	7125-047	ea.	25280
Isolation Seal, 7010	7010-015	ea.	25281

### did you know?

Restek offers an expanded selection of Agilent & Waters replacement parts!



### free literature

#### HPLC Accessories: Flow Splitters, Static In-Line Mixers, & Pulse Dampers

Products designed to ensure consistent mobile phase composition and flow, for more accurate, more reproducible chromatography.

lit. cat.# 59028



### free literature

#### HPLC Mobile Phase Accessories

To see our latest HPLC columns and accessories innovations, visit our website.

lit. cat.# 59728A



## Restek Replacement Parts for Waters™ HPLC Systems

Description	Model #	Similar to Waters™ part #	qty.	cat.#
Preventative Maintenance Kit Includes: sparge diffuser, filter insert, compression screws, SS ferrule, battery for 2690/717, 250µL WISP™ syringe, seal wash plunger seal kits (2), wash tube seal kits (4), 2690 seal pack rebuild kit (steel bodies not included), 2690 head plunger seal kits (2), solvent reservoir 20µm filters (4), Alliance® check valve cartridges (2), Alliance® plunger assemblies (2), 2690 face seals (4)	Alliance® 2690	WAT270944	kit	25143
Preventative Maintenance Kit Includes: PerformancePLUS™ cartridges (2), sparge diffusers (4), Super Seals™ (2), solvent reservoir 20µm filters (2), sapphire plungers (2), reference valve rebuild kit, inlet manifold kit	600 Pump	WAT052675	kit	25144
Preventative Maintenance Kit Includes: 717 seal pack with needle, filter insert, 250µL WISP™ syringe	717 Autosampler	WAT052669	kit	25145
Preventative Maintenance Kit Includes: 616/326/625 plunger assemblies (2), pump seal kit, sparge diffusers (4), solvent reservoir 20µm filters (4), 616 cartridge assemblies (4)	616 Pump	WAT052672	kit	25146
Inlet Check Valve Assembly	M6KA, 501, 510, 515, 590, 600E	33679, 25214	ea.	25360
Inlet Check Valve Housing	M6KA, 501, 510, 515, 590, 600E	25203	ea.	25361
Inlet Check Valve Rebuild Kit	M6KA, 501, 510, 515, 590, 600E	60495	2-pk.	25362
Outlet Check Valve Assembly (Actuator Style)	M6KA, 501, 510, 515, 590, 600E	25030	ea.	25363
Outlet Check Valve Housing (Actuator Style)	M6KA, 501, 510, 515, 590, 600E	25212	ea.	25364
Outlet Check Valve Rebuild Kit (Actuator Style)	M6KA, 501, 510, 515, 590, 600E	26016	2-pk.	25365
Outlet Check Valve Assembly (Ball & Seat Style)	M6KA, 501, 510, 515, 590, 600E	25216	ea.	25366
Outlet Check Valve Housing (Ball & Seat Style)	M6KA, 501, 510, 515, 590, 600E	25207	ea.	25367
Outlet Check Valve Rebuild Kit (Ball & Seat Style)	M6KA, 501, 510, 515, 590, 600E	26014	2-pk.	25368
Inlet Check Valve Assembly, 225µL (Extended Flow)	M6KA, 501, 510, 515, 590, 600E	60307	ea.	25369
PerformancePLUS® Check Valve Cartridge	M6KA, 501, 510, 515, 590, 600E	700000254	2-pk.	25370
Check Valve Rebuild Kit (Extended Flow)	M6KA, 501, 510, 515, 590, 600E	88223	2-pk.	25371
PerformancePLUS® Check Valve Housing	M6KA, 501, 510, 515, 590, 600E	—	ea.	25372
Check Valve Cartridges	Alliance®	WAT270941	2-pk.	25373
Super Seal® for Analytical Heads	M6KA, 501, 510, 515, 590, 600E	22946, 22934	ea.	25374
Plunger Seal, Gold (Analytical Heads)	M6KA, 501, 510, 515, 590, 600E	22934	ea.	25375
Plunger Seal, Black	M6KA, 501, 510, 515, 590, 600E	26613	ea.	25378
Plunger Seal, Black (EF Heads)	510, 590, 600E	26644	ea.	25379
Plunger Seal, Gold (EF Heads)	510, 590, 600E	26644	ea.	25380
Seal Wash Plunger Seal	Alliance®	WAT271018	2-pk.	25386
Head Plunger Seal Kit	Alliance®	WAT270938	2-pk.	25387
Head Plunger Seal Kit (Black)	Alliance®	WAT271066	2-pk.	25388
Insert Seal Parts Kit	M6KA, 501, 510, 515, 590, 600E	60012	kit	25389
Sapphire Plunger	M6KA, 510, 590, 600	25656	ea.	25381
Sapphire Plunger (Extended Flow)	510, 590, 600E	60304	ea.	25382
Sapphire Plunger	M45, M501	26524	ea.	25383
Sapphire Plunger	M515	WAT207069	ea.	25384
Sapphire Plunger	616, 625, 626	31788	ea.	25420
Sapphire Plunger	Alliance®	WAT270959	ea.	25385
Single Solvent Inlet Manifold	600E	60034, 60042	ea.	25390
Pressure Transducer	M6KA, 501, 510, 515, 590, 600E	60328	ea.	25391
Draw-Off Tube Assembly	M6KA, 501, 510, 515, 590, 600E	25470	ea.	25392
1/16" Stainless Steel TEE	M6KA, 501, 510, 515, 590, 600E	75215	ea.	25411
Inlet Manifold Kit	M45, 501, 510, 590, 600E	60448	kit	25412
Ferrule, Stainless Steel	515	22330	ea.	25417
Gradient Proportioning Valve, 9Volt	600E	34423	ea.	25418
Gradient Proportioning Valve, 12Volt	600E	62037	ea.	25419
Wash Face Seal	Alliance® 2690	WAT271017	ea.	25428
Wash Tube Seal Kit	Alliance® 2690	WAT270940	4-pk.	25429
Proportioning Valve	Alliance® 2690	WAT270927	ea.	25430



**Cathy Gross**  
HPLC Sales/  
Marketing Specialist  
*1 year of service!*



## free literature

## HPLC Tech Tips Wall Chart

Almost everything you need to remember about HPLC, condensed into 3 feet by 2 feet. Post near your instrument to save time; perhaps save a column.

lit. cat.# 59894A

Searching for a replacement product?

[www.restek.com/hplc](http://www.restek.com/hplc)



### ASI Piston Seals

Over time the piston seal in every HPLC system becomes worn and must be replaced. ASI piston seals are constructed of Teflon® material with an additive that reduces their tendency to “cold flow” and improves their wear characteristics. Teflon® seals are more resistant to any HPLC solvent than UHMW-PE seals, but they are less wear resistant and rugged. For Agilent 1050 and 1100 HPLC systems.

Description	qty.	cat.#
ASI Piston Seal	ea.	25175
ASI Piston Seal	10-pk.	25176



### ASI Replacement HPLC Pump Piston Rods

Buffer salts and metals from the HPLC system become imbedded on the surface of the piston seal and gradually wear the surface of the piston rod. Worn regions on the rod will quickly destroy the pump seals. In turn, the seal material gets trapped on the frit at the head of the column, which leads to increased system pressure and/or irregular or poor peak shape. As the piston continues to wear, a leak may develop at the pump.

Any time piston seals are replaced, the piston rod should be inspected with a 10x magnifier or microscope to ensure it does not have wear or scratches. Replace the rod if you observe any glazed regions or scratches.

Description	Model #	Material	qty.	cat.#
Pump Piston Rod for Waters	616, 625, 626	Sapphire	ea.	25195
Pump Piston Rod for Waters	Alliance® 2690	Sapphire	ea.	25196
Pump Piston Rod for Agilent	1050, 1100	Sapphire	ea.	25197
Pump Piston Rod for Agilent	1090	Sapphire	ea.	25198



### ASI Check Valves

ASI subjects each valve to a rigorous series of tests. Each valve is tested for its self-priming capability, which means you typically won't need a syringe or draw-off valves to prime your pump. The valve also undergoes a high-pressure and a low-pressure test. The high-pressure test ensures that the valve will not leak, even at pressures up to 12,000psi. The low-pressure test verifies that the valve closes properly, even without a high back-pressure force. The cartridge design allows easy, convenient replacement of worn or damaged valves.

### did you know?

Restek offers Analytical Scientific Instruments (ASI) check valves and piston seals for Agilent and Waters systems. ASI specializes in HPLC system components and parts that often exceed the original equipment manufacturer's performance.

#### ASI Check Valves for Agilent 1050 & 1100

Description	Material	qty.	cat.#
Outlet Check Valve (cartridge and housing)	Sapphire & Ruby Ball & Seat	ea.	25170
Outlet Check Valve (cartridge and housing)	Ceramic Ball & Seat	ea.	25173
Outlet Cartridges	Sapphire & Ruby Ball & Seat	ea.	25171
Outlet Cartridges	Ceramic Ball & Seat	ea.	25174
Outlet Housing	—	ea.	25172

#### ASI Check Valves for Waters Alliance® Model 2690

Description	Material	qty.	cat.#
Outlet Cartridges	Sapphire & Ruby Ball & Seat	ea.	25161
Outlet Cartridges	Ceramic Ball & Seat	ea.	25163
Inlet Cartridges	Sapphire & Ruby Ball & Seat	ea.	25160
Inlet Cartridges	Ceramic Ball & Seat	ea.	25162

#### ASI Check Valves for Waters 616 SS

Description	Material	qty.	cat.#
Outlet Check Valve (cartridge and housing)	Sapphire & Ruby Ball & Seat	ea.	25167
Outlet Check Valve (cartridge and housing)	Ceramic Ball & Seat	ea.	25179
Inlet Check Valve (cartridge and housing)	Sapphire & Ruby Ball & Seat	ea.	25164
Inlet Check Valve (cartridge and housing)	Ceramic Ball & Seat	ea.	25177
Outlet Cartridge	Sapphire & Ruby Ball & Seat	ea.	25168
Outlet Cartridge	Ceramic Ball & Seat	ea.	25180
Inlet Cartridge	Sapphire & Ruby Ball & Seat	ea.	25165
Inlet Cartridge	Ceramic Ball & Seat	ea.	25178
Inlet Housing	—	ea.	25166
Outlet Housing	—	ea.	25169



Inlet and Outlet Check Valves for Waters Instruments

### PEEK® Survival Kit for HPLC

The PEEK® Survival Kit is an invaluable parts kit that contains tools and supplies essential for setting up and maintaining your HPLC system: PEEK® tubing, connectors, and elbows, Teflon® tubing, a tubing cutter and extra blades, a ValvTool wrench, open-end wrenches, and more.

Description	qty.	cat.#
PEEK Survival Kit for HPLC	kit	25322



### Stainless Steel Survival Kit for HPLC

The stainless steel survival kit contains a wide range of tubing, fittings and a tools necessary to set up and maintain your HPLC system: a selection of lengths and IDs of 1/16-inch tubing, plus nuts, ferrules, a ValvTool wrench, and a zero-dead-volume union.

Description	qty.	cat.#
Stainless Steel Survival Kit for HPLC	kit	25097



### PEEK® Fitting Extractor

Drill into the broken fitting, then screw the extractor into the fitting and remove it easily.

Description	qty.	cat.#
PEEK® Fitting Extractor	ea.	25325



### HPLC Piston Seal Insertion Tool

Simplify pump maintenance: use one end to remove your old seal, then simply slip your new seal on the other end and push it flush into position. The tool cannot mar the surrounding metal surface of the pump housing.

Description	qty.	cat.#
HPLC Piston Seal Insertion Tool	ea.	21356



### ValvTool Wrench

The ValvTool is a time-saving device that provides easy access to many hard-to-reach Rheodyne® or Valco® valves. For 1/4-inch nuts.

Description	qty.	cat.#
ValvTool Wrench	ea.	25321



### Clean-Cut™ Tubing Cutter

- Burr-free, perpendicular cuts that will not distort the tubing OD or close the ID.
- Use on PEEK®, Teflon®, Tefzel®, other polymeric tubing.

Description	qty.	cat.#
Clean-Cut™ Tubing Cutter	ea.	25069
Replacement Blade for Clean-Cut™ Cutter	ea.	25070



### Mobile Phase Spargers and Filters

These helium spargers offer an inexpensive way to prepare and maintain mobile phases free of dissolved gas. They are made from 316 stainless steel and PEEK® and are compatible with most solvents.

Description	qty.	cat.#
Sparge Filter: 2µm	ea.	25311
Inlet Filter: 10µm	ea.	25312
Inlet Filter: 20µm	ea.	25313



## three simple words...

### Plus 1™

Exceeding your expectations in everything we do.

### Innovation

Turning visions into reality™.

### Execution

On-time delivery of products and services.

Restek's vision is to be the company that chromatographers trust by providing the highest quality, most innovative products and services throughout the world.

We will soon reach our goal of 100% employee ownership. As owners, our success depends on your success.

Restek Trademarks/Service Marks: Plus 1, Turning Visions into Reality, Restek logo.

Other Trademarks: Agilent (Agilent Technologies, Inc.); Alliance, PerformancePLUS, Super Seal, Waters, WISP (Waters Associates, Inc.); Clean-Cut (Jour Research); Kel-F (3M Co.); PEEK (Vitrex plc); Rheodyne (Rheodyne LP); Teflon, Tefzel, Vespel, (E.I. du Pont de Nemours & Co. Inc.); Valco (Valco Instruments Co., Inc.).

## SGE Syringes for Agilent 1090 & 1100 LC Autosamplers

1/4-32 UNEF thread



250µL, 1/4-32 UNEF Thread

Volume	SGE		Restek	
	Model	cat.#	qty.	cat.#
25µL	25D-HP1090-GT	3670	ea.	22290
250µL	250D-HP1090-GT	6670	ea.	22291

## SGE Syringe for Hitachi LC Autosamplers

M10 X1 thread



500µL, M10 X1 Thread

Volume	SGE		Restek	
	Model	cat.#	qty.	cat.#
500µL	500C-HITACHI	7660	ea.	22292

## SGE Syringes for PerkinElmer LC Autosamplers

1/4-28 UNF thread



250µL, 1/4-28 UNF Thread

Volume	SGE		Restek	
	Model	cat.#	qty.	cat.#
50µL	50D-CX-GT	4995	ea.	22295
100µL	100D-CX-GT	5990	ea.	22296
250µL	250D-CX-GT	6995	ea.	22297
500µL	500D-CX-GT	7995	ea.	22298
1mL	1MD-C-GT	8185	ea.	22299

## SGE Syringes for Waters WISP® LC Autosamplers

1/4-28 UNF thread



250µL, 1/4-28 UNF Thread

Volume	SGE		Restek	
	Model	cat.#	qty.	cat.#
25µL	25D-WISP	3990	ea.	22293
250µL	250D-WISP	6690	ea.	22294

## Hamilton Syringes for Waters WISP® LC Autosamplers

- Teflon® PTFE-tipped plungers



Volume	Hamilton		Restek	
	Model	cat.#	qty.	cat.#
25µL	1702	80020	ea.	24528
250µL	1725	80024	ea.	24529



Lit. Cat.# 59012A-INT

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