



Bottle not included.



26543

Waste Overflow Indicator for LC Systems

- Avoid messy pooling around mobile phase waste containers.
- Audible alarm instantly alerts user, preventing overflow.
- Compact, battery-operated unit.
- Available for 4-liter and GL-45 solvent bottles.

The Restek® waste overflow indicator will help keep your mobile phase waste where it belongs—in the waste container! Compact, battery-operated unit fits securely on solvent bottles and accommodates two waste streams. An audible alarm is given as the solvent waste container approaches capacity, giving you time to empty or change the container. Another innovative design from Restek!

| Description | qty. | cat.# |
|---|-------|-------|
| Waste Overflow Indicator for LC Systems, 4 Liter | ea. | 26543 |
| Waste Overflow Indicator for LC Systems, GL-45 | ea. | 26550 |
| Replacement AA Battery for the Waste Overflow Indicator | ea. | 26544 |
| Replacement AA Batteries for the Waste Overflow Indicator | 3-pk. | 26545 |

Extend the life of columns and pump seals with Restek's Bluestem glass solvent filter

See [page 343](#).



i tech tip

Mobile Phase Additives with LC-MS

Mobile phase additives such as triethylamine, trifluoroacetic acid, and ion-pairing reagents can compete with sample ions, decreasing sensitivity and, in some cases, reducing sample ion intake into the MS. To obtain symmetric peaks and/or sufficient retention, use base deactivated silica, like Pinnacle® DB or high purity silicas like Ultra or Raptor™, that minimize the need for additives.



26395

Hub-Cap Filter Kit

Kit includes: bottle adaptor, bottle adaptor nut, filter inlet cap, grid support, vacuum hose barb, tube compression fitting, 47 mm grid, 47 mm 0.22 µm filter membrane, 47 mm 0.45 µm filter membrane, 1/4" OD x 1/8" ID ultra chemical resistant, FEP-lined Tygon® tubing (3'), 6" x 6" box with shrink-wrap insert.

Includes universal threads designed for 4 L or Wheaton bottles. Use with GL-45 bottles requires Opti-Cap® adaptor (sold separately).



Polypropylene Membrane Filters



25925



Bottle not included.

Assembles quickly and easily!



Unscrew and lift off top.



Place membrane filter on top of grid.



Reattach top.



Connect vacuum line to side port.

| Description | qty. | cat.# |
|--|---------|-------|
| Hub-Cap Filter Kit for 4 L or Wheaton bottles | kit | 26395 |
| Replacement Parts | | |
| Polypropylene Membrane Filters, 47 mm, 0.45 µm | 100-pk. | 26396 |
| Polypropylene Membrane Filters, 47 mm, 0.22 µm | 100-pk. | 26397 |
| Nylon Membrane Filters, 47 mm, 0.45 µm | 100-pk. | 26398 |
| Nylon Membrane Filters, 47 mm, 0.22 µm | 100-pk. | 26399 |
| Hub-Cap Filter Hose Barb | ea. | 25925 |

Last Drop Filter

The flat filter element sits parallel to the bottom of the mobile phase reservoir, allowing the filter to draw 98% of the mobile phase without drawing air into the system. Conventional cylindrical mobile phase filters begin to draw air into the system when approximately 10% of the solvent remains in the reservoir. The Last Drop filter allows more analyses per batch of mobile phase and helps reduce hazardous waste. 22.1 mm OD.



25314

| Description | qty. | cat.# |
|-------------------------|------|-------|
| Last Drop Filter, 2 µm | ea. | 25314 |
| Last Drop Filter, 10 µm | ea. | 25315 |

UHP Pulse Dampener

The UHP pulse dampener provides minimal flow pulsation at system pressures up to 18,000 psi. Its low dead volume (220 µL at atmospheric pressure) reduces overall system volume for UHP applications. The UHP pulse dampener has a stainless steel fluid path.

UHPLC compatible



26549

| Specifications: | |
|----------------------|---|
| Operating Pressure: | 0–18,000 psi |
| Pulsation Dampening: | 3:1 reduction in pulsation (dependent on pump characteristics and system volume and pressure) |
| Fluid Path Volume: | 220 µL (atmospheric pressure) +44 µL (per 1,000 psi system pressure) |
| Wetted Materials: | 316 SS; PTFE |
| Dimensions: | 2.5" diameter x 2.0" high |

| Description | qty. | cat.# |
|--------------------|------|-------|
| UHP Pulse Dampener | ea. | 26549 |



25008

Low-Pressure Slip-On Inlet Filter for Mobile Phase Reservoir

A 316 stainless steel tip with a Tefzel® collar seals to a corrosion-resistant 316 stainless steel filter element. The slip-on filter easily attaches to the pump inlet line, without the use of wrenches. The universal 1/8" OD tip accommodates standard PTFE tubing inner diameters. The cylindrical filter is standard 10 µm porosity. Fits Altex, ISCO, LDC, Varian, Waters, PerkinElmer, and other pumps.

| Description | qty. | cat.# |
|----------------------|------|-------|
| Slip-On Inlet Filter | ea. | 25008 |

MiniPulse Pulse Dampener

- Compact unit (2.5" x 1.5") can be placed almost anywhere.
- Small, 160 µL dead volume at atmospheric pressure.
- PEEK unit can withstand pressures to 5,000 psi (34,474 kPa).
- 316 stainless steel unit can withstand pressures to 6,000 psi (41,369 kPa).



25238

Improve system baseline stability while increasing the total system volume by only 160 µL. The MiniPulse pulse dampener is ideal for applications where minimizing the total system volume is critical. Stainless steel and PEEK options for a wide range of applications.

| Description | qty. | cat.# |
|---|------|-------|
| MiniPulse Pulse Dampener, Stainless Steel | ea. | 25238 |
| MiniPulse Pulse Dampener, PEEK | ea. | 25239 |

Mobile Phase Spurge Filters

The spurge filter is an inexpensive way to prepare and maintain mobile phases free of dissolved gas. Filters are made from 316 stainless steel and PEEK, and they are compatible with most solvents. Connects to standard 1/8" OD (3.2 mm) PTFE tubing.



25311

| Description | qty. | cat.# |
|-----------------------------------|------|-------|
| Mobile Phase Spurge Filter, 2 µm | ea. | 25311 |
| Mobile Phase Spurge Filter, 10 µm | ea. | 25312 |
| Mobile Phase Spurge Filter, 20 µm | ea. | 25313 |

Solvent Debubbler

Bubbles in an LC system can cause check valve malfunctions and pump cavitation, seriously affecting pump performance. The debubbler removes bubbles from the fluid stream before it enters the pump.



25014

Special geometry at the base of the housing allows bubbles entrained in the inlet fluid stream to rise and be trapped in the reservoir. The gas/liquid interface is easily visible through the translucent wall of the device. Loosening the airtight cap releases the trapped gas. The debubbler features a polypropylene body and bracket; universal inlet and outlet connecting tips are made of 316 stainless steel and accept 0.063", 0.085", and 0.125" ID tubing.

| Description | qty. | cat.# |
|--------------------------------|------|-------|
| Solvent Debubbler With Bracket | ea. | 25014 |



26431



26392

Bluestem Glass Solvent Filter

- Restek® Bluestem glass solvent filter provides clean mobile phase to extend the life of columns and pump seals.
- 15 µm borosilicate glass frit sits lower than conventional glass filters to draw more mobile phase from each bottle.
- Blue filter stem allows instant visual confirmation of upright filter orientation.
- Connects to standard 1/8" OD (3.2 mm) PTFE tubing using your existing frit adaptor (also sold separately as cat.# 26392).

Prevent the particulates and microbial growth in your LC solvents from entering your instrument with the new Restek® Bluestem glass solvent filter.

| Description | Similar to | | |
|----------------------------------|----------------|-------|-------|
| | Agilent Part # | qty. | cat.# |
| Glass Solvent Filter, 15 µm frit | 5041-2168 | ea. | 26431 |
| Frit Adaptor, PTFE | 5062-8517 | 4-pk. | 26392 |

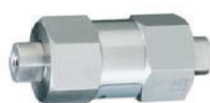
Mixers

- Reduced baseline noise.
- Increased sensitivity.
- Improved gradient accuracy for more reproducible results.
- Increased reaction efficiency in post-column derivatization.

An efficient cross-flow shearing mechanism and interchangeable cartridges produce vortex shear mixing over a wide range of flows.

HyperShear Static In-Line Mixers

Stainless steel or PEEK.



25342

| Volume | Stainless Steel | | PEEK | |
|--------|-----------------|-------|------|-------|
| | qty. | cat.# | qty. | cat.# |
| 1 µL | ea. | 26409 | ea. | 26410 |
| 25 µL | ea. | 26411 | ea. | 26412 |
| 50 µL | ea. | 25341 | ea. | 26413 |
| 150 µL | ea. | 25342 | ea. | 26414 |
| 250 µL | ea. | 25343 | ea. | 26415 |



25138

Ternary Tee Mixer

Stainless steel.

| Description | Volume | qty. | cat.# |
|-------------------|--------|------|-------|
| Ternary Tee Mixer | 25 µL | ea. | 25138 |



Polypropylene Membrane Filters

Membrane Microfiltration Glassware

This 47 mm filtration apparatus with fritted glass support is recommended for routine filtration of corrosive liquids and removal of particles from LC solvents.

The ground joint connection eliminates phthalate contamination that can occur when using silicone or neoprene stoppers. The support base has a coarse-porosity glass frit and an integral vacuum connection, located above the drip tip to prevent contamination of the vacuum line with filtrate droplets. Each apparatus includes a funnel, an anodized aluminum clamp, a 47 mm fritted glass support base, and a filtration flask.



KT953825-0000

| All-Glass Microfiltration Apparatus | qty. | cat.# |
|---|---------|---------------|
| 300 mL Funnel, 1,000 mL Flask | ea. | KT953825-0000 |
| 500 mL Funnel, 2,000 mL Flask | ea. | KT953835-0000 |
| 1000 mL Funnel, 4,000 mL Flask | ea. | KT953845-0000 |
| Replacement Parts for Microfiltration Apparatus | qty. | cat.# |
| 40/35 PTFE Joint Sleeve | 6-pk. | KT676001-4035 |
| Flask Cap, 40/35 Outer Joint | ea. | KT953830-0000 |
| Fritted Glass Support, 47 mm, 40/35 Joint | ea. | KT953826-0000 |
| Glass Funnel, 47 mm, 100 mL | ea. | KT953761-0000 |
| Glass Funnel, 47 mm, 300 mL | ea. | KT953751-0000 |
| Glass Funnel, 47 mm, 500 mL | ea. | KT953771-0000 |
| Glass Funnel, 47 mm, 1,000 mL | ea. | KT953781-0000 |
| Flask, 1,000 mL, 40/35 Joint | ea. | KT953827-0000 |
| Flask, 2,000 mL, 40/35 Joint | ea. | KT953828-0000 |
| Flask, 4,000 mL, 40/35 Joint | ea. | KT953829-0000 |
| Aluminum Clamp, 47 mm | ea. | KT953753-0000 |
| Membrane Filters | qty. | cat.# |
| Polypropylene Membrane Filters, 47 mm, 0.45 µm | 100-pk. | 26396 |
| Polypropylene Membrane Filters, 47 mm, 0.22 µm | 100-pk. | 26397 |
| Nylon Membrane Filters, 47 mm, 0.45 µm | 100-pk. | 26398 |
| Nylon Membrane Filters, 47 mm, 0.22 µm | 100-pk. | 26399 |