



New HPLC Mobile Phase Accessories

More Accurate, More Reproducible Chromatography

by Rebecca Wittrig, Ph.D., HPLC Product Marketing Manager

QuickSplit™ Post-Column Flow Splitters for HPLC & LC/MS

- ✓ Split ratio unaffected by changes in viscosity or pressure.
- ✓ Low dead volume—negligible effect on analyte bandwidth.

Adjustable Flow Splitters

- Adjustable metering valve gives convenient control of split ratio.
- High operating pressure limit: 5,000 psi.

Fixed Flow Splitters

- High operating pressure limit: 10,000 psi.

Two fluid resistors forming a parallel flow path generate split ratios in a QuickSplit™ Flow Splitter. The interchangeable cartridge design makes changing split ratios a snap, and eliminates tedious adjustments to capillary tubing. Internal volume in the fluid resistors is extremely low, so solvent composi-

tion in both resistors is always the same, and viscosity changes during gradient runs do not impact the split ratio. Use QuickSplit™ technology anywhere a controlled, reproducible split ratio is important, including LC/MS, flow fractionation, or capillary LC.



Fixed Flow Splitter



Adjustable Flow Splitter

Description	Split Ratio	qty.	cat.#
Binary Fixed Flow Splitter	100:1	ea.	25326
Replacement Fixed Flow Splitter Resistor Set	100:1	ea.	25331
Binary Fixed Flow Splitter	50:1	ea.	25327
Replacement Fixed Flow Splitter Resistor Set	50:1	ea.	25332
Binary Fixed Flow Splitter	20:1	ea.	25328
Replacement Fixed Flow Splitter Resistor Set	20:1	ea.	25333
Binary Fixed Flow Splitter	10:1	ea.	25329
Replacement Fixed Flow Splitter Resistor Set	10:1	ea.	25334
Binary Fixed Flow Splitter	5:1	ea.	25330
Replacement Fixed Flow Splitter Resistor Set	5:1	ea.	25335
Adjustable Flow Splitter	5:1 to 100:1	ea.	25336
Replacement Adjustable Flow Splitter Resistor Set	5:1 to 100:1	ea.	25338
Adjustable Flow Splitter	1:1 to 20:1	ea.	25337
Replacement Adjustable Flow Splitter Resistor Set	1:1 to 20:1	ea.	25339

For the most up-to-date list of HPLC accessories and instrument parts, visit our website at www.restekcorp.com

HyperShear™ Static In-Line Mobile Phase Mixers

- ✓ Reduced baseline noise, for increased sensitivity.
- ✓ Improved gradient accuracy—more reproducible results.
- ✓ Greater reaction efficiency in post column derivatization.

ASI HyperShear™ Mixers incorporate a highly efficient cross-flow shearing mechanism to produce vortex shear mixing over a wide range of flow rates. This technology typically delivers 25–200% greater mixing efficiency, compared to conventional tortuous path mixers. Stainless steel construction.



Choosing the appropriate mixer volume is a trade-off among delay volume, baseline noise, and step gradient definition and repeatability. The following guidelines will help simplify the decision:

- For a given flow rate, the greater the mixing volume, the better the mixing and the lower the baseline noise.

- For a given flow rate, the smaller the mixing volume, the better the definition and sharpness of linear gradients.
- When running linear gradients, multi-pump high pressure gradient systems typically require far less mixing volume than low pressure single-pump gradient systems.

Description	qty.	cat.#
50µL In-Line Mixer	ea.	25341
150µL In-Line Mixer	ea.	25342
250µL In-Line Mixer	ea.	25343

FlatLine™ Pulse Damper



- ✓ Rupture-proof, no diaphragm—minimal risk of failure or leaks.
- ✓ Clean flush-out design—no sample carryover.
- ✓ Low internal volume—negligible effect on analyte bandwidth.

The ASI FlatLine™ Pulse Damper combines performance and reliability in a simple, easy-to-use housing. Standard 10-32 inlet and outlet ports allow quick connection into virtually any HPLC system. Solid core technology provides reliable long-term operation without the down time associated with ruptured or leaking membrane dampers.

Description	qty.	cat.#
FlatLine™ Pulse Damper	ea.	25340