ASI HyperShear HPLC Mixers

ASI manufactures a wide range of Mixers to meet the most demanding HPLC mixing problems. All ASI Mixers incorporate a highly efficient cross-flow shearing mechanism which produces vortex sheer mixing over a wide flow range. This mixing technology typically delivers between 25 to 200% better mixing efficiency compared to conventional stir bar or tortuous path mixers. HyperShear HPLC Mixers are available in both static and dynamic formats with volumes ranging from 0.5µl to 1.5ml. Most mixers are available in biocompatible PEEK.

HyperShear HPLC Mixer Features:

- Static or Dynamic Mixers with highly efficient vortex sheer mixing
- Reduce baseline noise, increase sensitivity, and improve gradient accuracy
- Mixing volume optimization is easy with interchangeable mixer cartridges
- In-line, binary, and ternary formats
- Available in stainless steel or biocompatible PEEK
- Ideal for microbore HPLC and LC/MS
- Compact design is easily integrated into any HPLC system
- Increased reaction efficiency for post column derivatization
- Decreased mixing and delay volume without sacrificing mixing efficiency
- 15,000 psi High Pressure SS Static Mixers are available

Comparison of Baseline Noise

The baseline of the plot below has been enlarged to show the noise levels associated with each mixer. Note the significant reduction in baseline noise with the ASI static mixer.

Conditions:

Gradient Program:
CH3CN/H2O = 50/50--> (15 MIN.) 90/10
Flow Rate: 0.1mL/min.
Temp.: 40°C
Sample Size: 1µL
Sample: Solvent Front
Detection Wavelength: 254 nm