



## Splitters, Pulse Dampers, Mixers, Spare Parts for HPLC and Post Column Reactors of **ASI**

### Introduction

The well known US company **ASI (Analytical Scientific Instruments)** located in California, offers high quality products for HPLC for today's and future use.

Main products are:

- 1) **Pre column and post column splitter**
- 2) **Pulse damper**
- 3) **High pressure mixers**
- 4) **Spare parts for HPLC**
- 5) **Post column reactors**
- 6) **Other special products for HPLC**

All above mentioned products are not copies of established products, but completely new and patented developments. These unique devices eliminate most of known disadvantages of other equipment. So the flow splitter e.g. do not simply consist of a T-junction and a set of quartz capillaries, but special cartridge type flow resistors, which are perfectly produced with an unmatched precision. If necessary they can be replaced within seconds by the user.

For more details and more information visit the web page of ASI [www.hplc-asi.com](http://www.hplc-asi.com)

### Product Overview



The splitter with a fixed or variable split ratio are called **Quicksplit™**. They do not contain any quickly blocked capillaries. The flow resistors are made of special cartridges of PEEK and stainless steel. They are produced with precision of approx. 1 micron, which is 50 times thinner than a human hair.

Variable and fixed split ratios offer the right solution for your chromatographic need. The post column splitter are commonly used in combination with preparative HPLC systems and MS, which can be connected on-line. Here the user has the great advantage to transmit a small percentage of the effluent to MS and to collect the remaining part in fractions.



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**HyperShear™** high pressure mixers are used when the flow of two or more high pressure pumps are combined with a gradient system and homogenized perfectly in order to achieve a smooth detector baseline and reproducible retention times.



The high pressure mixers are available in static or dynamic mixing mode. Mixers are offered with a dead volume as low as 5 up to 1.500 micro litres. So they can be used for any HPLC application. The mixers are produced either of PEEK (biocompatible) or stainless steel for the highest pressure demands.



**FlatLine™ Pulse Damper** replaces the classical membrane type pulse damper. They do not have any solvent compatibility problem nor a membrane, which can be damaged and destroy the column immediately. The dead volume is extremely low; so the “wash-out-volume” is also very low. As a result of this there is only a minimal change in the gradient shape.

The ASI pulse damper can also be equipped with a pressure transducer.



The common **Post Column Reactors** are normally equipped with a coil, which are made of TEFLON capillary of different inner diameter. Therefore they can easily block or leak. Depending on the length and ID of the capillary, dispersion may disturb the peak shape and separation. Also the signal/noise ratio would decrease.

The reactors of ASI do not have any capillaries. Like resistor cartridges the reactors are designed as pressure stable and closed/sealed cartridges. Therefore dispersion is minimized significantly.

The temperature range can be adjusted between 5°C over ambient up to 150°C. All parts are placed for easy access on a drawer.

**Please ask for the complete delivery program and latest price list as PDF file. In case of inquiries / guidance or order please contact the SunChrom's specialists.**



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