

**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. 600–700µL internal volume at ambient pressure.

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

**MicroPulse™ Pulse Dampers**

- Compact unit (2.5" x 1.5") can be placed almost anywhere.
- Small, 150µL dead volume at atmospheric pressure.
- PEEK™ unit can withstand pressures to 5,000psi (34,474kPa).
- 316 Stainless steel unit can withstand pressures to 6,000psi (41,369kPa).

Improves system baseline stability while increasing the total system volume by only 150µL. The MicroPulse™ pulse damper 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.#
MicroPulse™ Pulse Damper, Stainless Steel	ea.	25238
MicroPulse™ Pulse Damper, PEEK™	ea.	25239



LO-Pulse®
Pulse Damper Kit

LO-Pulse® Pulse Damper

The LO-Pulse® Pulse Damper is a patented, wide-dynamic-range 316 stainless steel device that smooths pulsations and maintains constant flow at system pressures up to 6,000psi (41,369kPa). The flow path volume is only 0.9mL and the path is efficiently swept, eliminating solvent memory effects when changing mobile phases.

The LO-Pulse® pulse damper also is available in a space-saving, economical kit that includes hardware for mounting the pulse damper on a bracket, or for installing feet on it for bench-top use.

Description	qty.	cat.#
Model LP-21 LO-Pulse® Pulse Damper	ea.	25012
Pulse Damper Kit	kit	25013

**Backpressure Regulators**

Backpressure regulators can improve detector performance by preventing bubble formation in the detector flow cell. They also are useful in post-column reaction lines and between detectors and fraction collectors in preparatory work. Regulators are superior to more specific alternative solutions, like small-bore tubing, in which pressure varies with flow rate.

Our end-of-line and flow-through backpressure regulators are adjustable to assure constant backpressure over a wide range of mobile-phase viscosities and flow rates. The end-of-line model is available with 1/4-28 plastic flange-type fittings or high-pressure 1/16-inch compression fittings; this design adjusts from 15 to 60psi (103 to 414kPa). The flow-through design has 1/16-inch compression fittings and is adjustable from 7 to 75psi (48 to 517kPa).

Description	qty.	cat.#
A) Backpressure Regulator: end-of-line, 1/16-inch OD tubing, flanged	ea.	25017
B) Backpressure Regulator: end-of-line, high-pressure seat	ea.	25018
C) Backpressure Regulator: flow-through, 5µL internal volume	ea.	25020