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*Perfect* **PEAK**<sup>®</sup>

[www.mottcorp.com/mixer](http://www.mottcorp.com/mixer)

## HPLC Static Mixer Installation Guide

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**mott**  
MISSION CRITICAL PRECISION

REV 1017

These instructions are for a typical HPLC setup, adjustments to the procedure may be needed depending on your system configuration.

## REQUIRED MATERIALS

Suitable Lab Gloves

*If using standard fittings:*

- » 1/4" (6.35 mm) Open Ended Wrench
- » 9/16" (14.29 mm) Open Ended Wrench

*If no mixer currently installed in system:*

Tubing with 10-32 dual-end stainless steel compression fittings—4" long 1/16" OD recommended, ID to match your current tubing (101 mm long, 1.59 mm OD)

*Note: If using standard fittings, disconnect and connect all fittings with a hand-wrench. If using finger-tight fittings, disconnect and connect all fittings by hand.*



## INSTALLING INTO A SYSTEM WITHOUT A MIXER CURRENTLY INSTALLED

1. Disconnect column from system
2. Flush system with non-hazardous solvent (50/50 mixture of IPA/Water recommended)
3. Stop solvent flow
4. Identify free floating location between pump and autoinjector to install PerfectPeak Static Mixer. (Having outlet of mixer face upward is recommended)
5. Disconnect tubing from pump only or manifold if one is present
6. Connect recently disconnected tubing to outlet of mixer

7. Grab additional tubing and connect PerfectPeak Static Mixer to pump
8. Open purge valve if one is present
9. Set pump to high flow rate, run for 5 minutes to ensure mixer is wetted and air is removed from system (2-5 mL per minute recommended)
10. Flush system with mobile phase and reconnect column

## TO REPLACE A CURRENTLY INSTALLED MIXER

1. Disconnect column from system
2. Flush system with non-hazardous solvent (50/50 mixture of IPA/Water recommended)
3. Stop solvent flow
4. Identify location of currently installed mixer between pump and autoinjector. (Typically found in a bracket)
5. Hold mixer in place and disconnect tubing from outlet
6. Repeat step 5 for inlet side of mixer
7. Remove old mixer and insert PerfectPeak mixer into same spot
8. Connect disconnected tubing into inlet of the mixer
9. Repeat step 8 for outlet of the mixer
10. Set pump to high flow rate and run for 5 minutes to ensure mixer is wetted and air is removed from system. (2-5 mL per minute recommended)
11. Flush system with mobile phase and reconnect column