

PUSH IT!

PRESSURE INJECTION CELLS



Use gas pressure to load
1 μ m to 1mm capillaries.

- PACK YOUR CAPILLARIES
 - SAVE MONEY
 - CONTROL YOUR EXPERIMENTS

MASS SPEC. SAMPLE LOADING

- LESS SAMPLE REQUIRED
- IMPROVE ACCURACY

PACKING HPLC NANOBORE CAPILLARY COLUMNS

- **SAVE MONEY:** Why pay hundreds of dollars for each capillary column when you can pack them yourself? These top quality, reliable capillary loaders are the best value around.
- **TAKE CONTROL:** Pack capillary columns exactly how and when you want them. Avoid purchasing and delivery bottlenecks.

MASS SPECTROMETRY SAMPLE LOADING

- **USE LESS SAMPLE.** Samples are loaded directly from microcentrifuge tubes into the mass spectrometer, thereby avoiding transfer loss.
- **ACCURACY AND SAMPLE INTEGRITY.** The sample does not contact any metallic surfaces which may interfere with your experiment (by losing anions, gaining cations, or allowing Lewis acid catalyzed reactions in the analyte solution).

- THE PRESSURE INJECTION CELL IS ALSO AVAILABLE AS A COMPLETE **COLUMN PACKING KIT** WITH: CAPILLARY TUBING, A FRIT ASSEMBLY, STAINLESS STEEL TUBING TO CONNECT TO A GAS TANK, AND MORE.
CALL: 1.800.738.1681 OR VISIT www.nextadvance.com

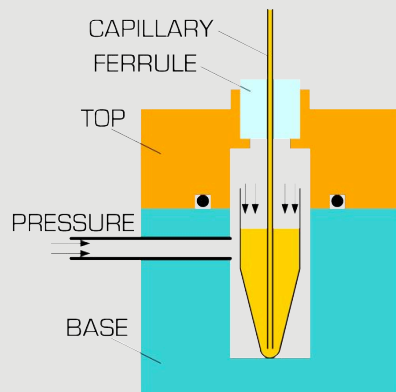
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PUSH IT!

Description of use: The **PRESSURE CELL** works the same way an 8-year old uses a juice box. Squeeze the box – juice comes out the straw!

So when you supply pressurized gas to the **PRESSURE CELL**, typically from a gas cylinder (right), you push your sample liquid into your capillary column. A 0.5 to 2 ml tube or vial containing the sample liquid is placed in the base of the high pressure capillary loader (see figure left).



Put your capillary tube through the hole in the ferrule of the cap and gently push down into the sample tube. When packing a capillary, a glass frit assembly is placed at the distal end of the capillary (using our **FRIT KIT™**) to prevent the particles from exiting. Controlling the gas pressure, you can adjust the flow rate of the sample into the capillary.

Schematic of the cell, bolts not shown.



Pressurized gas forces the sample liquid into the capillary.

The PC77 (standard pressure cell, left) shown on a stir plate with a capillary and a frit assembly. Or purchase a PC77-MAG (not shown) which has a stir plate built-in.

Features

- Use 0.5mL to 2mL microcentrifuge tubes, or 12 x 32mm vials (2 dram)
- Sample tubes are easy to load and retrieve (see inset, right).

Model	Maximum Pressure	Body Style	Built in stirring?
PC1000	1000 psi	acrylic	
PC77	2500psi	stainless steel	
PC77-MAG	2500psi	stainless steel	✓
PC8500	8500psi	stainless steel	
PC8500	8500psi	stainless steel	✓

- High quality components, including Swagelok® stainless steel valve and fittings and an O-ring face seal.
- Use Teflon® ferrules sized for a variety of capillary sizes.
- Hexagonal shape ensures correct alignment of quick-release cap.
- 2 year warranty
- 30 day money back guarantee



The sample tube protrudes above the base for easy and convenient placement and retrieval.

"The capillary loader is really handy. I have two in my lab, one for packing capillaries and one for loading samples in my mass spec. Packing my own capillaries saves me hundreds of dollars on each one."

—Dr. Qishan Lin, Proteomics Core Facility Director – The Center For Functional Genomics, University At Albany

"Hey it works great. I am getting much better resolution since packing my own columns and using the cell to directly inject my samples. The first purchase in a long time that was well worth the money."

—Dr. Steve Mouton, Northrop Grumman Proteomics

"I have found the pressure injection cell very useful, well constructed, and with several minor but important features that simplify its use over other systems I have tried. This system has saved me time and energy, while consistently delivering high quality packed nanocolumns."

— Dr. Andrew Bauman, Seattle Children's Hospital

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