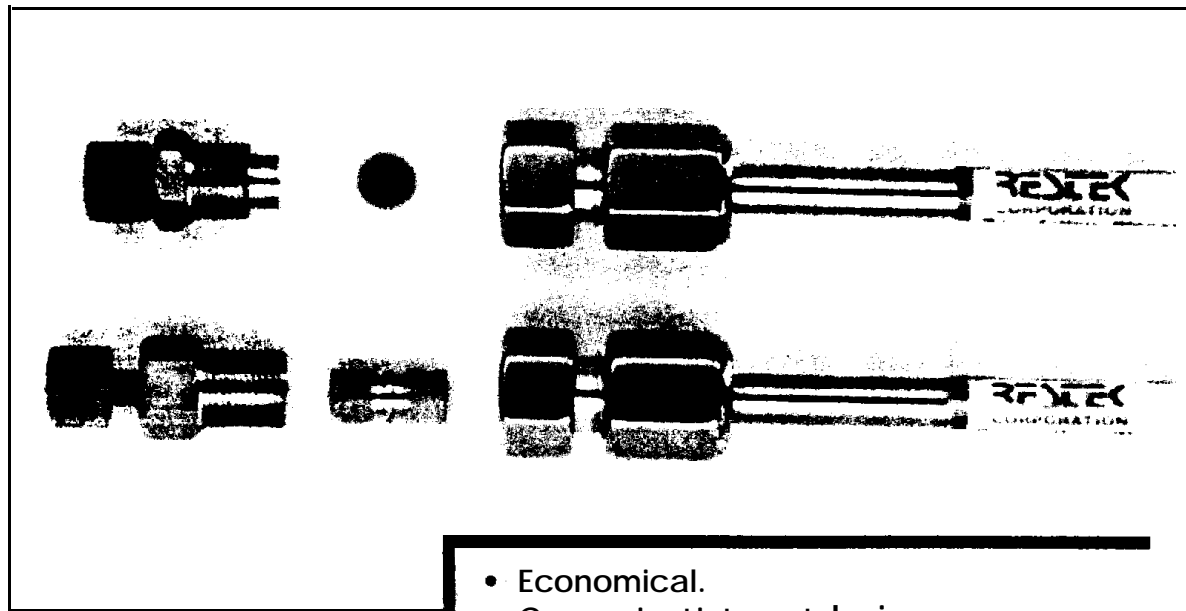




# New Integral HPLC Column Protection System



- Economical.
- Convenient integrat design.
- Replaceable external frit.
- Slurry packed guard columns.
- No holder or connecting tubing needed.

guard columns utilize a simple 1cm by 4.0 mm cartridge design which provides excellent protection at an economical price. In addition, the guards can be slurry packed with the same packing material as the analytical column to ensure optimum performance and sample compatibility.

Alternatively, the system makes it possible to clean or replace an external frit at the column inlet. By simply removing the retaining nut, the external frit can be removed without loosening the column end-fitting or disturbing the packing bed. The external frit prevents particulate matter, which can distort peak shape and cause high back pressure, from entering the column.

(1) LC/GC, 12 (12) 890-898 (1994).

The most recent LC/GC HPLC user preferences survey<sup>(1)</sup> indicates guard column usage is one of the best approaches to extend column lifetime and reduce operating costs. Increased analytical column reproducibility and reliability serve as justification for the reported expenditure of nearly 25% of column budgets on guard columns. An effective guard column prevents particulate matter, sample impurities, and strongly retained (i.e. noneluted) compounds from entering the more expensive analytical column and degrading its performance. Replacing the guard column at regular intervals reduces the risk of selectivity or efficiency alteration of the primary column from contamination. The design, contents and connection of a guard column should ensure

sample dispersion is minimized. A guard column that is poorly packed or connected improperly will adversely affect the performance of the analytical column.

In response to this need the Restek wizards have designed a new, economical and convenient integrated HPLC column protection system. The system, which will be introduced at PittCon 1996, features an innovative column end-fitting that can be used with either an integral guard column or replaceable external inlet frit. Since the fitting is an inherent part of the analytical column, a separate guard holder or additional connecting tubing is not needed. This eliminates undesirable extra-column band spreading which can adversely affect peak shape and column performance. The

Contact YOUR local distributor for more information on this complete HPLC guard system.

Have you received Restek's HPLC Catalog?

If not, call your local distributor for a FREE copy.