

# TK Precolumn and Inline Filters

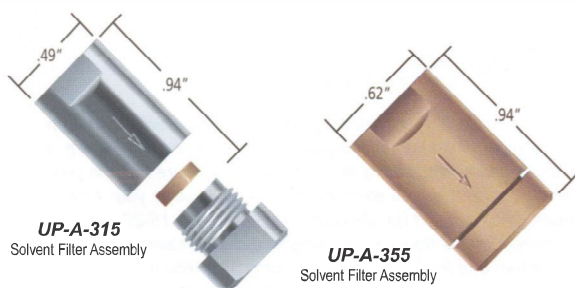
## Increase the Life of your Column

A precolumn filter placed between the sample injection valve and the HPLC column protects the column from particles originating in the sample and from pump/valve seal wear. Why use a precolumn filter when there is a frit at the head of the column itself? Because changing the column frit risks ruining the column by disturbing the column packing. A precolumn filter provides relatively inexpensive insurance against column damage, and changing its frit is easy.

## Precolumn Filters

- 0.5 µm or 2 µm Frits Available
- Great Column Protection
- Stainless Steel and Biocompatible PEEK™ Polymer Versions Available

These Precolumn Filters have .020" diameter thru-holes and 8° distribution cones for minimal band spreading and mixing. They are available in stainless steel (UP-A-315/UP-A-316), pressure rated to 9,000 psi (620 bar) and biocompatible PEEK polymer versions (UP-A-355/UP-A-356), pressure rated to 5,000 psi (345 bar). Choose either the 0.5 µm or 2 µm version to filter particulates from your flow path.



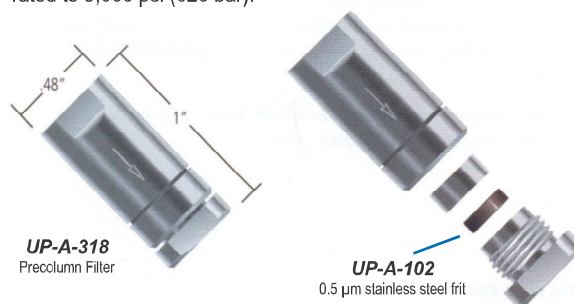
## Precolumn Filters

Reference	Description	Swept Volume*
UP-A-315	2µm Solvent Filter Assembly, with UP-A-101 Frit	1.4 µL
UP-A-316	0.5µm Solvent Filter Assembly, with UP-A-102 Frit	1.3 µL
UP-A-355	2µm Solvent Filter Assembly, with UP-A-700 ID PEEK Frit, Biocompatible	1.4 µL
UP-A-356	0.5µm Solvent Filter Assembly, with UP-A-701 ID PEEK Frit, Biocompatible	1.3 µL
UP-A-101x	2µm Replacement Frits, Stainless Steel, 10-pk	0.74 µL
UP-A-102x	0.5µm Replacement Frits, Stainless Steel, 10-pk	0.61 µL
UP-A-700	2µm Replacement Frit, PEEK Polymer	0.74 µL
UP-A-701	0.5µm Replacement Frit, PEEK Polymer	0.61 µL

## Ultra-Low Volume Precolumn Filter

- Our Lowest Swept Volume Precolumn Filter for 1/16" OD Tubing

With a .010" diameter thru-hole, our UP-A-318 Filter has one of the lowest swept volumes (0.61µL\*) of any HPLC filter available, ensuring maximum protection with no band broadening. Pressure rated to 9,000 psi (620 bar).



## Ultra-Low Volume Precolumn Filters

Reference	Description	Swept Volume*
UP-A-318	0.5µm Solvent Filter Assembly, with UP-A-102 Frit	0.84 µL
UP-A-102x	0.5µm Replacement Frits, Stainless Steel, 10-pk	0.61 µL

## Inline Solvent Filter

- Excellent for General Purpose In line Use
- Placed between the pump and sample injection valve, our Inline Solvent Filter traps particles released through normal piston seal wear. Without an inline filter, these particles can be flushed through your system's tubing to the sample injection valve, resulting in valve damage and further system contamination. This filter is pressure rated to 8,500 psi (586 bar) and uses a 2µm stainless steel frit with a PEEK ring. An 8° distribution cone spreads the flow of the mobile phase over the entire surface of the frit, while the .050" diameter thru-hole allows proper solvent flow.



## Inline Solvent Filters

Reference	Description	Swept Volume*
UP-A-314	2.0µm Solvent Filter Assembly, with UP-A-100 Frit	4.0 µL
UP-A-100x	2.0µm Replacement Frits, Stainless Steel, 10-pk	1.4 µL

\*Swept volumes include/reflect theoretical frit volume values.