## **HPLC** Accessories

## **In-Line Filters**

A precolumn filter is essential for protecting HPLC columns against particulate matter which can accumulate on the column frit, leading to split peaks and high back pressure. Sources of particles include mobile phases (especially when buffers **throngated** wi solvents), leaking pump and injector seals, and samples. Use a 2.0µm frit to protect columns containing 5µm or largeoparticles 0.5µm frit for columns with particles smaller than 5µm.

Supelco Filter

Direct-connect; protects analytical and guard columnsOur precolumn filter can be connected directly, hand-tight, into any HPLC column or guard column that has Valco-compatible endfittings. PEEK cap and body, 2µm stainless steel frit. For a metal-free system, order PEEK/Teflon replacement frits (Cat. No. 57430-U).

Z227323



SSI High Pressure Precolumn Filter

In-line installation. The 316 stainless steel filter disc (0.5µm pores) is easily replaced without removing the column end fitting. Maximum operating pressure: 15,000psi (1054kg/cm<sup>2</sup>). For 1/16" tubing.

DESCRIPTION	QTY.	CAT. NO.	PRICE
SSI High Pressure Precolumn Filter			
10-32 Threads <sup>2</sup>	1	59269	
Waters Threads	1	59271	
Replacement Filter Elen	nents		
0.5µm pores	10	59273	
2µm pores	10	59272	

<sup>2</sup> Most HPLC fittings, except SSI and some Waters fittings, have 10-32 threads.



Upchurch Precolumn Filter In-line installation. Stainless steel body with inert polyetherether-ketone (PEEK) endfittings and a 0.5µm or 2µm

Isolation Technologies Precolumn Filter

In-line installation. High capacity inlet filter minimizes dead

volume and band broadening, to prevent loss of column efficien OESCRIPTION QTY. CAT. NO. while protecting your column. Frit porosity: 0.5µm. Complete as Upchurch Precolumn Filter shown. 0.5µm frit 1 55079 2µm frit 1 55078

57675-U

DESCRIPTION	QTY.	CAT. NO.	PRIC
Isolation Technologies Precolu			
3mm frit (4.6mm columns)	1	57675-U	
1.5mm frit (2.1mm columns)	1	57676-U	
Replacement Frits			
3mm	5	57677	
1.5mm	5	57678	

DESCRIPTIONQTY.CAT. NO.PRICEUpchurch Precolumn Filter0.5µm frit1550792µm frit15507855078Replacement Frits0.5µm1055080-U2µm1055081



Upchurch Mini MicroFilter Assembly

PEEK frit in one endfitting.

Ultra-low swept volume  $-0.85\mu$ L. Use with Microtight tubing sleeves. Available with  $1\mu$ m or  $2\mu$ m frit capsules (stainless steel frit in color-coded PEEK capsule). Includes 2 MicroFingertight II fittings, 3 filter capsules.

	DESCRIPTION	CAT. NO.	PRICE
si	Mini MicroFilter Assembly with 1µm Frit with 2µm Frit	54722-U 54721-U	
	Replacement Mini MicroFilter Capsules with 1µm Frit (black PEEK) with 2µm Frit (natural PEEK)	54724-U 54723-U	

SSI High Pressure Preinjector Filter

Place between the pump and injector to provide final filtration for the mobile phase. Easily replaced 316 stainless steel filter element (0.5µm pores). Maximum operating pressure: 15,000psi (105MPa). For 1/16" OD tubing, 10-32 threads.

59262-L

DESCRIPTION	CAT. NO.	PRICE
SSI High Pressure Preinjector Filter	59262-U	
Replacement Filter Elements (pk. of 2)		
0.5µm pores	59264	
2µm pores	59265	

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www.sigma-aldrich.com/supelco

Web:

1.800.359.3041

Service:

Technical

3010

1.800.325.

Order:

SUPELCO

## **HPLC** Accessories

## In-Line Filters, Back-Pressure Regulators

Upchurch In-Line MicroFilter



Supelco Silica and C18 Saturator Columns



Install between 2 pieces of capillary tubing, using Microtight tubing dissolve silica (pH>7.0), saturate the mobile phase with silica by sleeves. Special PEEK fitting encases 0.5µm PEEK frit. 0.006" thrupassing it through a silica saturator column. Similarly, to protect hole, 0.24µL swept volume. Includes 2 MicroFingertight nuts, 5 fritsyour column from acidic mobile phases which can strip bonded (1 installed). phase (pH<2.0), use a C18 saturator column.



In-line filter connects capillary tubing (using Microtight tubing sleeves) or 1/16" OD tubing to female 10-32 fitting. 0.5µm frit, 0.3µL swept volume. Includes 5 frits (1 installed).

DESCRIPTION	CAT. NO.	PRICE
MicroFilter for 0.025" OD Tubing with PEEK Frits with Stainless Steel Frits	502677 502669	
MicroFilter for 1/16" OD Tubing with PEEK Frits with Stainless Steel Frits	502693 502685	
Replacement Frits, pk. of 10 PEEK, 0.5µm Stainless Steel, 0.5µm Stainless Steel, 2.0µm	502790 502731 502723	

Each kit consists of 10g of packing (12µm spherical particles, 180m<sup>2</sup>/g surface area), a 7.5cm x 4.6mm column, two frits, and fittings to connect the column to 1/16" tubing. The optional plastic funnel is helpful for filling these columns.

DESCRIPTION	CAT. NO.	PRICE
Supelco Silica Saturator Column Kit	58410	
Supelco C18 Saturator Column Kit	58418	
Replacement Components and Accessories		
Spherical Silica, 10g	58411	
C18 packing, 10g	58419	
Funnel and Tubing	20390-U	

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Web:

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PRICE

SSI Back-Pressure Regulator

Prevents bubbles and improves baseline stability. This 1/16" flange type unit (4 x 1.3cm) has a unique mechanism that ensures constant back-pressure over a wide range of mobile phase flows and viscosities. It is immune to clogging and other problems common to restrictor-type devices. Easily adjusts from 1-4 atm $\frac{1}{2}$ (15-60psi/1-4kg/cm<sup>2</sup>).

SSI Back-Pressure Regulator

DESCRIPTION

CAT. NO 58788



Valco Precolumn Frit and Screen Filters <sup>3</sup>

In-line installation. Efficient, low dead volume filters protect your columns from particles without reducing column perfor-

Choose the frit filter for higher filtration capacity (most applications) or the screen filter for less dead volume (e.g., with Minimizes bubble formation in the detector cell, improves microbore columns). Use with 1/16" OD tubing; 1/16" fittings included.

DESCRIPTION	QTY.	CAT. NO.	PRICE
Valco Precolumn Filters			
Frit Filter	1	58420-U	
Screen Filter	1	58279-U	
Replacement Frits			
0.5µm pores	10	59037	
2.0µm pores	10	59129	
Replacement Screens	10	58284	
a = 12 · · · · · · · · · · · ·			

<sup>3</sup> Frits and screens should not be interchanged in these filters.

SSI Flow-Through Back-Pressure Regulator

mance. The replaceable 1/8" frit has 0.5µm pores to protect 3µm or 5µm column packings, the replaceable screen has 2µm pores. used with flowmeters.

> baseline stability. Flow-through design minimizes band spreading Immune to clogging. Adjustable from 0.3 to 5 atmospheres (factory set at 4 atmospheres), for compatibility with any detector. Small, inert to common HPLC solvents, biocompatible? flow path.

> Technica DESCRIPTION PRICE CAT. NO SSI Flow-Through Back-Pressure Regulator 59284 0 55085-U 301 ŝ Upchurch In-Line Check Valve 32 Place in the flow system where you wish to restrict fluid flow to one direction. Complete with wrench. 80 <del>.</del> DESCRIPTION PRICE CAT. NO Upchurch In-Line Check Valve 55085-U Order