



"Last Drop" filter

- Flat bottom to allow pumping of the last milliliters of mobile phase, reducing the risk of de-priming
- Large filtration surface
- Stainless steel or PTFE filter element with different porosities
- 2 types of connections possible:
 - Tripod or 3 diameter adapter for tubes with internal diameter 1.5, 2.2 and 3.5 mm
 - 1/4"-28 connections for 1/8" external diameter tubes

	2 µm	Max flow rate	2.5 µm	Max flow rate	5 µm	Max flow rate	10 µm	Max flow rate
Tripods: adapter for tubes 1.5 - 2.2 and 3.5 mm internal diameter								
Stainless steel frit	921321	28 mL/min	---	---	GM9030	30 mL/min	921341	30 mL/min
PTFE frit	---	---	921361	1.2 mL/min	921371	2.6 mL/min	921381	3.5 mL/min
Hydrophobic PTFE frit	---	---	---	---	---	---	YE4860	11 mL/min
1/4"-28 fittings for 1/18" OD tubing								
Stainless steel frit	GM9030	28 mL/min	---	---	GM8980	30 mL/min	AU0680	30 mL/min
PTFE frit	---	---	AU0650	1.2 mL/min	AU0660	2.6 mL/min	AU0670	3.5 mL/min
Hydrophobic PTFE frit	---	---	---	---	---	---	YE4861	11 mL/min



"Last drop" filters + helium bubbling

2 in 1, this filter combines the solvent filter and the helium bubbling filter.

- Stainless steel or PTFE filtering part parallel to the bottom of the solvent tank to remove almost all the solvent (porosity available in 2, 5 and 10 µm)
- Stainless steel or PTFE filtering part on the side for helium bubbling (porosity 10 µm)

	2 µm	Max flow rate	2.5 µm	Max flow rate	5 µm	Max flow rate	10 µm	Max flow rate
Stainless steel frit	413511	30 mL/min	---	---	T78650	30 mL/min	413521	30 mL/min
PTFE frit	---	---	413531	1.2 mL/min	T78640	2.6 mL/min	413541	3.5 mL/min
Hydrophobic PTFE frit	---	---	---	---	---	---	YE4820	11 mL/min

Replacement parts

Description	P/N	Qty
PEEK nuts 1/4"-28 tube 1/8"	921390	10 u
1/8" ETFE ferrules	163840	10 u



Biocompatible high flow rate last drop filters

- The solution to combine biocompatibility and high flow rate
- Ceramic frit
- Glass body
- 1/8" tube connection

Description	1-1.6 µm	Max flow rate	10-16 µm	Max flow rate	40-100 µm	Max flow rate
Ceramic frit	YE4870	30 mL/min	YE4800	50 mL/min	YE4810	200 mL/min
PEEK replacement nut	YE4630		1u			

Economical last drop filters

- Stainless steel frit (2 or 10 µm) crimped into a PTFE body
- Easy to install (1/8" tube can be simply plugged in it)
- Reduces the risk of your HPLC pump de-priming
- Two models are available: 19 mm and 22 mm

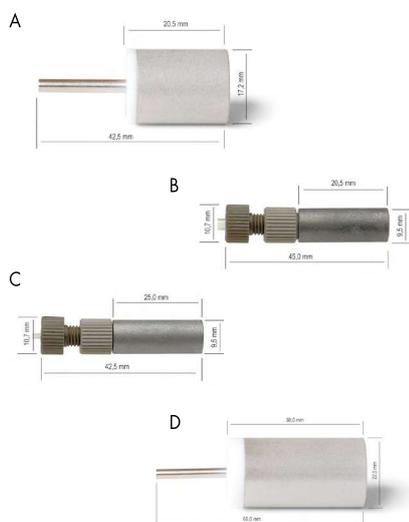
Ø & nature/ Porosity of the frit	2 µm	Max flow rate	2.5 µm	Max flow rate	5 µm	Max flow rate	10 µm	Max flow rate
19 mm PTFE	---		U88890	1.2 mL/min	U88900	2.6 mL/min	U88880	3.5 mL/min
22 mm PTFE	---		AU0530	1.2 mL/min	AU0540	2.6 mL/min	U88910	3.5 mL/min
19 mm SS	983020	30 mL/min	---	---	---	---	983030	30 mL/min
22 mm SS	983040	30 mL/min	---	---	---	---	983050	30 mL/min

Biocompatible suction filter

- Totally inert polymer (no metal parts in contact with the solvent)
- Tube connections using a ferrule and nut:
allowing all 1/8" tubing to be attached regardless of internal diameter
- Replaceable filter element

Description	5 µm	Max flow rate	20 µm	Max flow rate
Complete PTFE filter	821760	2.2 mL/min	U88370	500 mL/min
Replacement filter	821770	2.2 mL/min	U88380	500 mL/min
Economical PE filter	GM8740	300 mL/min	---	---





Stainless steel filters for mobile phase or degassing

- Different configurations and porosities
- Tube connections using a ferrule and a nut: this allows all 1/8" or 1/16" tubes to be fixed regardless of internal diameter or socket connections in tubes with an internal diameter of 1/8".
- The 2 μ m version is ideal as a helium diffuser (0 to 400 mL/min) in any configuration

\emptyset & nature/ Porosity of the frit	2 μ m	Max flow rate	10 μ m	Max flow rate	20 μ m	Max flow rate
1/8" (model B)	188104	35 mL/min	887133	100 mL/min	U88480	120 mL/min
1/16" (model C)	230381	35 mL/min	976602	35 mL/min	U88490	35 mL/min

\emptyset & nature/ Porosity of the frit	2 μ m	Max flow rate	25 μ m	Max flow rate		
17.2 mm (model A)	344510	50 mL/min	---	---		
22.0 mm (model D)	542410	95 mL/min	344540	100 mL/min		

Low pressure in-line cartridge filters

- Easy to replace
- 1/4"-28 connection
- Three different porosities
- Stainless steel body
- Stainless steel frit pressed into an inert cartridge

	2 μ m	Max flow rate	10 μ m	Max flow rate	75 μ m	Max flow rate
P/N / 5 u	GC3410	30 mL/min	GC3400	30 mL/min	GC3420	30 mL/min

Union and nuts not included.

All flow rates were measured with methanol/water (1:1).



RELATED PRODUCTS

Dispensing box: UptiVial™ Kit
 A single reference for your bottles,
 caps & glassware, an attractive price and
 a dispenser box.
 Available in stock. See chapter:
 Bottles, Capsules & Glassware - UptiVial™





Opti-Solv direct connection filters

A solution for the protection of columns and valves, adapted to your needs according to your applications.

- Easy to use, they are installed as a 10 - 32 manual clamp fitting.
- Compatible with all columns
- Version without dead volume

Opti-Solv Mini filter

The Opti-Solv mini filter is equipped with 2 frit materials of different porosities (5 µm then 0.5 ; 2 ; 5 µm)

Filter porosity	P/N	Qty
0.5 µm	10-04-00095	5 u
2 µm	10-04-00097	5 u
5 µm	10-04-02768	5 u

Opti Solv Micro Filter up to 6,000 psi

Internal frit volume: < 200 nl

Filter porosity	Standard	Biocompatible	Qty
0.5 µm	---	10-04-03621	5 u
1 µm	10-04-03357	---	5 u
2 µm	10-04-03389	---	5 u
10 µm	---	10-04-03707	5 u

Optisolv nanofilter

Ideal for mass spectrometry applications to avoid clogging of the electrospray and nanospray mechanisms.

Internal volume < 50 nL

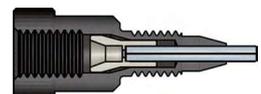
Filter porosity	Biocompatible	Qty
0.5 µm	10-04-03625	5 u

In-line filters Upti-filter

Protection of your HPLC columns and pre-columns.

- Direct in-line mounting by simple manual tightening.
- Lower dead volume than traditional in-line filters.
- Filter body in PEEK, with stainless steel filter element 0.5 µm or 2 µm
- Maximum operating pressure: 5,000 psi or 350 bar

Description	P/N	Qty
PEEK in-line filter with 2 µm stainless steel filter element	R21281	10 u
PEEK in-line filter with 0.5 µm stainless steel filter element	T50270	10 u





In-line high pressure filters

The EXP Precolumn hand tight filter system is ideal for protecting UHPLC columns with small particle sizes.

Simple, innovative and easy to use, this hand-tight assembly is validated up to 20,000 psi and tested up to 30,000 psi.

The reusable holder allows the use of 0.5 µm or 0.2 µm filter cartridges with very low dead volume and low dispersion.

It is equipped with EXP type "fitting" titanium/PEEK ferrule.

Very high pressure UHPLC filters - Opti-Solv EXP2 (External Pressure)

	1 u	5 u	10 u
Filter bodies	15-04-05242	---	---
0.2 µm frit	---	15-04-05263	15-04-05264
0.5 µm frit	---	15-04-05261	15-04-05262
2 µm frit	---	15-04-05259	15-04-05260

In-line filters or direct connection

- Up to 15,000 psi
- Volume 5 µL
- Stainless steel body and ferrule
- 0.5 µm stainless steel frit

	In-line filter	Filter with direct connection
Body + frit 0.5 µm	850-1025	850-1020
Frit 0.5 µm (5 u)	850-1020-01	850-1020-01

High capacity in-line filters

- 316 stainless steel filter
- Filtering surface: 2.2 cm²

	Internal Volume	Standard version 6,000 psi	High pressure version 15,000 psi	Replacement frits per 5 u
2 µm	120 µL	850-1310	850-1310HP	850-1320
0.5 µm	100 µL	850-1315	850-1315HP	850-1325

Replaceable and interchangeable frits.

Iso-Prep inline filter (21.2 mm)

- For protecting 10.0 ; 15.0 ; 21.2 ; 30.0 ; 50.0 mm preparative columns
- Use up to 8 000 psi or 550 bar
- 2 µm frit and 21.2 mm diameter, easy frit replacement

Description	P/N	Qty
In line filter 21.2 mm (body + 2 µm frit)	CE4600	1 u
Replacement frit	CE4620	1 u



Electronic flowmeters for liquids

The solution to know the real flow rate delivered by your HPLC pump

- Flow measurement from 50 $\mu\text{L}/\text{min}$ to 25 mL/min
- Fast, accurate flow reading (4 digit display)
- Accuracy < 1.0% (0.5% from 0.25 mL/min to 5 mL/min)
- Volumetric measurement - not dependent of solvent nature
- Calibrated device, delivered with a certificate
- Compact device: 138 x 76 x 45 mm
- 320 g

These flowmeters, with a very wide range of flow rates, allow you to qualify your pump with a certified instrument.

The small volume of the internal cell (140 μL) reads the flow rate very quickly (about 25 s at 1 mL/min).

The measured solvent is only in contact with PEEK, PTFE, and borosilicate glass parts. This measurement is not dependent of the solvent as long as the viscosity does not exceed 10 cP.

For the qualification of your equipment, the flow meter can be connected to your computer via RS232 or USB (optional) or to a specific printer in order to record the flow rate.

The device is delivered in a case with all the useful accessories (cleaning, mounting bracket, user manual and certificate). It cannot be used online.



Description	P/N
Liquid flow meter from 0.05 to 25 mL/min calibrated at 1 mL/min	U95540
Liquid flow meter from 0.05 to 25 mL/min calibrated at 0.5 - 1.0 - 1.5 mL/min	U95550
Liquid flow meter from 0.05 to 25 mL/min calibrated at 0.1 - 1.0 - 2 mL/min	HV9150
Options	P/N
Option interface USB	BL6290
Printer	CA1700
Battery operated	
RS232 interface	
Delivered with 10 rolls of paper	
Compact: 47 x 92 x 108 mm	
330 g	

Recalibration on request.

