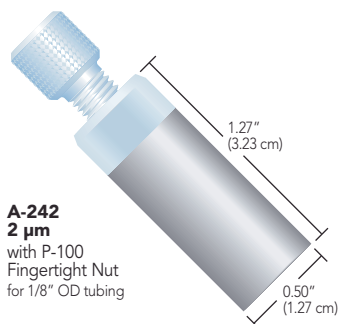


General Use Inlet Solvent Filters

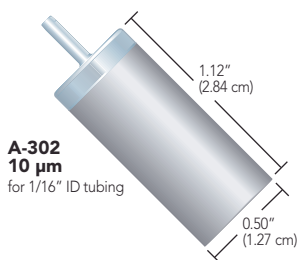
- ▶ Large surface areas prevent pump cavitation
- ▶ Disposable
- ▶ 2 µm, 10 µm, and 20 µm pore sizes available
- ▶ General use and prep filters for higher flow applications

It is good practice to filter your solvents to prevent pump damage. Upchurch Scientific® 316 stainless steel filters provide that protection.

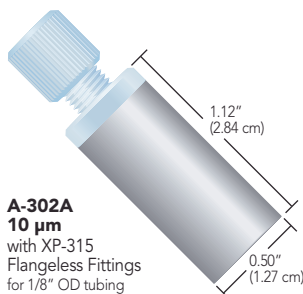
Because filters should be changed periodically, we make it easy to replace them without tools. For those filters using a plastic fitting, the tubing can be reconnected by finger tightening the fitting into the new filter. The filters with stems allow easy insertion into the inlet tubing.



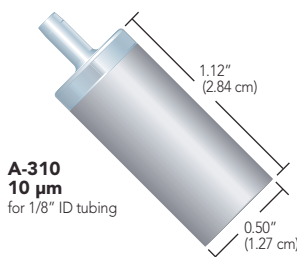
A-242
2 µm
with P-100
Fingertight Nut
for 1/8" OD tubing



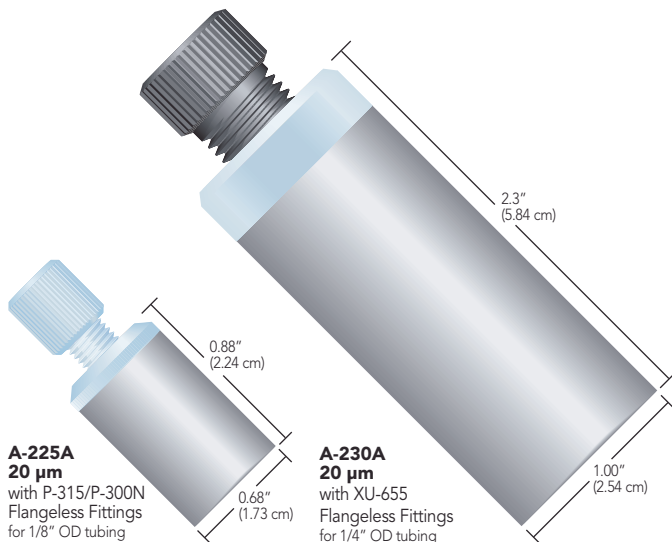
A-302
10 µm
for 1/16" ID tubing



A-302A
10 µm
with XP-315
Flangeless Fittings
for 1/8" OD tubing



A-310
10 µm
for 1/8" ID tubing



A-225A
20 µm
with P-315/P-300N
Flangeless Fittings
for 1/8" OD tubing

A-230A
20 µm
with XU-655
Flangeless Fittings
for 1/4" OD tubing

APPLICATION NOTE

Why Use An Inlet Solvent Filter?

- ▶ To filter out particulate matter from the solvent that may otherwise damage expensive hardware. (Use a 10 µm or 20 µm version for this purpose. The A-309 and A-230A filters have an added "Bottom of the Bottle™" feature to help draw solvent to within 1/8" of the bottom of your solvent bottle.)
- ▶ To prevent particulates originating from the sparging system from entering the mobile phase reservoir and to help disperse the sparging gas efficiently. (Use a 2 µm filter for this purpose.)
- ▶ To hold your tubing in place at the bottom of the bottle. (Most stainless steel filter options work best for this purpose.)

Note: It is usually a good idea to change the inlet filter as part of your semi-annual or annual preventative maintenance program.

Part No.	Description	Porosity	Material	For Tubing Size	Includes	Max. Suggested Flow Rate*
GENERAL USE INLET SOLVENT FILTERS						
For Analytical HPLC						
A-242	Inlet Solvent Filter with One-Piece Fitting	2 µm	PCTFE, SST	1/8" OD	(1) P-100	10 mL/min
A-243	A-242, 5-pack	2 µm	PCTFE, SST	1/8" OD	(5) P-100	10 mL/min
A-228	Inlet Solvent Filter with stem	2 µm	SST	1/8" ID	—	80 mL/min
★ A-302	Inlet Solvent Filter with stem	10 µm	SST	1/16" ID	—	40 mL/min
★ A-302A	Inlet Solvent Filter with Flangeless Fittings	10 µm	PCTFE, SST	1/8" OD	(1) XP-315	40 mL/min
A-309	Inlet Solvent Filter with stem	10 µm	SST	1/16" ID	—	40 mL/min
A-231A	Inlet Solvent Filter with Flangeless Fittings	20 µm	PCTFE, SST	3/16" OD	(1) XP-132	100 mL/min
★ A-310	Inlet Solvent Filter with stem	10 µm	SST	1/8" ID	—	40 mL/min
For Preparative HPLC Systems						
A-225	Inlet Solvent Filter with stem	20 µm	SST	1/16" ID	—	100 mL/min
★ A-225A	Inlet Solvent Filter with Flangeless Fittings	20 µm	PCTFE, SST	1/8" OD	(1) P-315, (1) P-300N	100 mL/min
A-227A	Inlet Solvent Filter with Flangeless Fittings	10 µm	PCTFE, SST	1/4" OD	(1) XU-655	100 mL/min
A-230A	Inlet Solvent Filter with Flangeless Fittings	20 µm	PCTFE, SST	1/4" OD	(1) XU-655	100 mL/min
A-311	Inlet Solvent Filter with stem	10 µm	SST	1/16" ID	—	100 mL/min
A-311A	Inlet Solvent Filter with Flangeless Fittings	10 µm	PCTFE, SST	1/8" OD	(1) XP-315	100 mL/min

* Maximum suggested flow rates are determined by porosity and surface area.