



## Mobile Phase Filtration Assembly (SS Holder)



### Solvent Filtration Assembly For Mobile Phase(Stainless steel )

#### Description :

Solvent purification is a critical topic in laboratory settings, encompassing various techniques and processes aimed at obtaining high-quality solvents for scientific research, synthesis, and analytical applications. This topic holds immense importance due to the significant role solvents play in various fields, including chemistry, biology, and materials science. Purifying solvents removes impurities such as water, oxygen, and contaminants, ensuring their suitability for sensitive experiments and reactions.

By discussing solvent purification, we gain insight into the methods, equipment, and advancements used to achieve high-purity solvents, enhancing experimental reproducibility, accuracy, and safety.

#### Solvent filtration process :

Filtration is a solvent purification technique used to remove solid impurities from an organic solution by isolating the solids on membranes. The selection of membranes should consider sample characteristics, removal rate, and filtration time.

There are two common methods of solvent filtration: gravity filtration and vacuum filtration. Vacuum filtration utilizes pressure differences to accelerate the filtration process, making it generally much faster than gravity filtration.

#### Specification :

Specification	Solvent Filtration Kit	
	300 ml	500 mL
Catalog number	SFA-SS300	SFA-SS500
SS 316 Filter Holder	300/ 500 ml capacity - 47 mm	
Filtration Area	13.6 cm <sup>2</sup>	
Cork	Silicon	
Receiver (Glass )	1000 ml , 2000 ml , 5000 ml	
Oil Free Vacuum Pump	AS 15/ AS25/ AS45/ AS75-S	
Membrane Filter Paper	Nylon 66- 47 mm-0.22/0.45um (Pkt/100)	
Silicon Tube	1 Mtr	



#### Advantages :

- Oil-free & care-free
- AS15 pumps are driven by diaphragm that needs no lubricant, making them maintenance-free and oil-mist-free.
- Solvent resistant
- AS15 Pump are resistant in different degrees to wide range of chemicals and solvents.
- One-step filtration
- Filter and store directly in all GL45 bottles to prevent repetitive transfers and cross-contamination.

#### Application :

- Waste water Filtration
- Media Filtration
- General Filtration
- MF Technique for analyzing aqueous-based fluids
- for microbial contamination
- Mobile phase purification for HPLC,
- LC/MS/MS analysis.
- for Acetonitrile, methanol, and tetrahydrofuran.

#### Safety compliance:

- CE certification