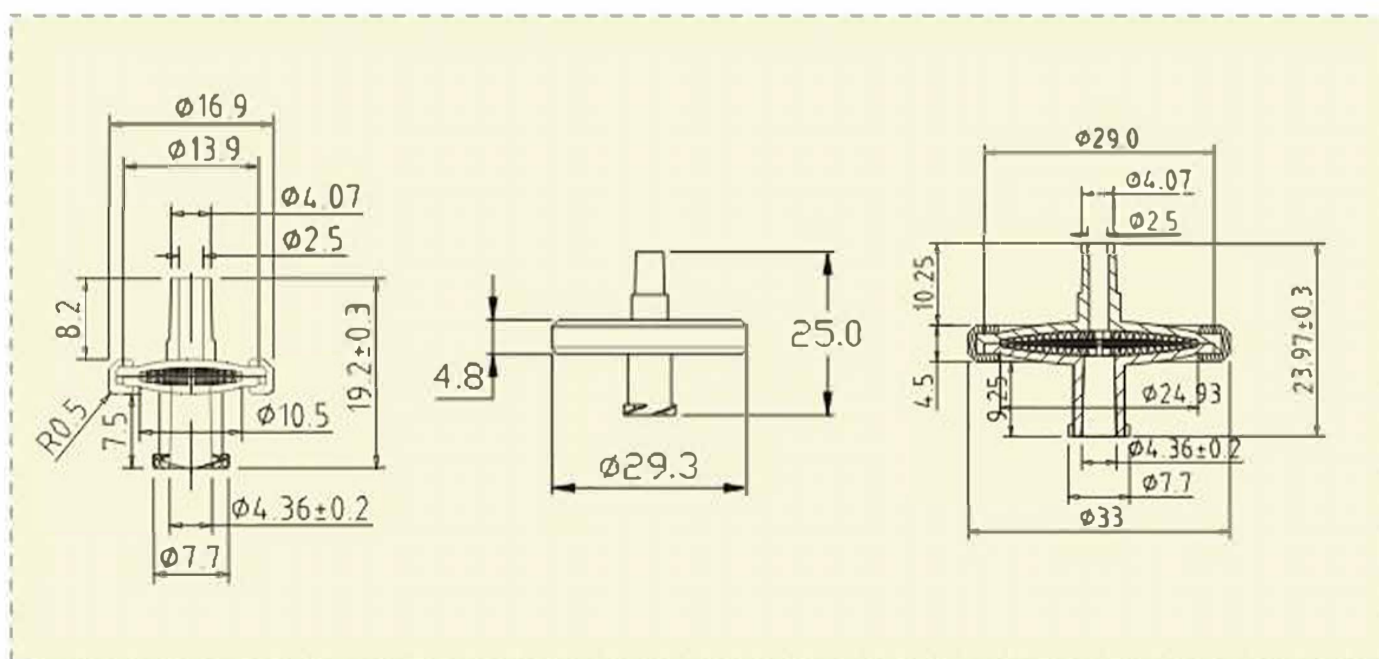


# Filtration Products



## Syringe Driven Filters

Syringe driven filters are widely used in laboratory, which are easy to operate, safe and effective.

- \* Syringe driven filters are widely used in laboratory, which are easy to operate, safe and effective
- \* Available with 7 membrane types of CA, PVDF, PES, MCE, Nylon, PTFE and SFCA
- \* 3 membrane areas of 0.88cm<sup>2</sup>, 3.46cm<sup>2</sup> and 4.45cm<sup>2</sup>
- \* 3 pore sizes: 0.10µm, 0.22µm and 0.45µm
- \* Quality tested for filter efficacy and housing integrity
- \* Low hold-up volume
- \* Gamma radiation sterilized
- \* Non-pyrogenic

### Ordering Information

- \* Individually packed in peel to open paper/plastic blister pack
- \* Designed recycle paper package box for easy open and close or place
- \* Every package box is labeled with lot Number for quality traceability

Membrane Material	Housing Diameter(mm)	Filter Area(cm <sup>2</sup> )	Housing Material	Hold-up Volume(ml)
PVDF	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
PES	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
MCE	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
NYLON	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
PTFE	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
CA	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100
SFCA	13.0	0.88	PP	<10
	25.0	3.46	PP	<100
	30.0	4.45	PP	<100



**Individually Package, Sterile**

Cat.No	Membrane Material	Pore Size (µm)	Housing Diameter(mm)	Sterile	Qty. per box/case
FMC201013	MCE	0.22	13.0	Y	100/800
FMC201025		0.22	25.0	Y	45/360
EMC201030		0.22	30.0	Y	45/360
FMC401013		0.45	13.0	Y	100/800
FMC401025		0.45	25.0	Y	45/360
FMC401030		0.45	30.0	Y	45/360
FPV103013	PVDF	0.10	13.0	Y	100/800
FPV103025		0.10	25.0	Y	45/360
FPV103030		0.10	30.0	Y	45/360
FPV203013		0.22	13.0	Y	100/800
FPV203025		0.22	25.0	Y	45/360
FPV203030		0.22	30.0	Y	45/360
FPV403013	PTFE	0.45	13.0	Y	100/800
FPV403025		0.45	25.0	Y	45/360
FPV403030		0.45	30.0	Y	45/360
PTF205013		0.22	13.0	Y	100/800
PTF205030		0.22	25.0	Y	45/360
PTF205030		0.22	30.0	Y	45/360
PTF405013	Nylon	0.45	13.0	Y	100/800
PTF405025		0.45	25.0	Y	45/360
PTF405030		0.45	30.0	Y	45/360
FNY202013		0.22	13.0	Y	100/800
FNY202025		0.22	25.0	Y	45/360
FNY202030		0.22	30.0	Y	45/360
FNY402013	PES	0.45	13.0	Y	100/800
FNY402025		0.45	25.0	Y	45/360
FNY402030		0.45	30.0	Y	45/360
FPE104013		0.1	13.0	Y	100/800
FPE104025		0.1	25.0	Y	45/360
FPE104030		0.1	30.0	Y	45/360
FPE204013	CA	0.22	13.0	Y	100/800
FPE204025		0.22	25.0	Y	45/360
FPE204030		0.22	30.0	Y	45/360
FPE404013		0.45	13.0	Y	100/800
FPE404025		0.45	25.0	Y	45/360
FPE404030		0.45	30.0	Y	45/360
CA206013	SFCA	0.22	13.0	Y	100/800
CA206025		0.22	25.0	Y	45/360
CA206030		0.22	30.0	Y	45/360
CA406013		0.45	13.0	Y	100/800
CA406025		0.45	25.0	Y	45/360
CA406030		0.45	30.0	Y	45/360
SCA207013	SFC	0.22	13.0	Y	100/800
SCA207025		0.22	25.0	Y	45/360
SCA207030		0.22	30.0	Y	45/360
SCA407013		0.45	13.0	Y	100/800
SCA407025		0.45	25.0	Y	45/360
SCA407030		0.45	30.0	Y	45/360

**Bulk Package, Sterile**

Cat.No	Membrane Material	Pore Size (µm)	Housing Diameter(mm)	Sterile	Qty. per box/case
FMC211013	MCE	0.22	13.0	Y	100/1000
FMC211025		0.22	25.0	Y	50/500
FMC211030		0.22	30.0	Y	50/500
FMC411013		0.45	13.0	Y	100/1000
FMC411025		0.45	25.0	Y	50/500
FMC411030		0.45	30.0	Y	50/500
FPV113013	PVDF	0.10	13.0	Y	100/1000
FPV113025		0.10	25.0	Y	50/500
FPV113030		0.10	30.0	Y	50/500
FPV213013		0.22	13.0	Y	100/1000
FPV213025		0.22	25.0	Y	50/500
FPV213030		0.22	30.0	Y	50/500
FPV413013	PTFE	0.45	13.0	Y	100/1000
FPV413025		0.45	25.0	Y	50/500
FPV413030		0.45	30.0	Y	50/500
PTF215013		0.22	13.0	Y	100/1000
PTF215025		0.22	25.0	Y	50/500
PTF215030		0.22	30.0	Y	50/500
PTF415013	Nylon	0.45	13.0	Y	100/1000
PTF415025		0.45	25.0	Y	50/500
PTF415030		0.45	30.0	Y	50/500
FNY212013		0.22	13.0	Y	100/1000
FNY212025		0.22	25.0	Y	50/500
FNY212030		0.22	30.0	Y	50/500
FNY412013	PES	0.45	13.0	Y	100/1000
FNY412025		0.45	25.0	Y	50/500
FNY412030		0.45	30.0	Y	50/500
FPE114013		0.1	13.0	Y	100/1000
FPE114025		0.1	25.0	Y	50/500
FPE114030		0.1	30.0	Y	50/500
FPE214013	CA	0.22	13.0	Y	100/1000
FPE214025		0.22	25.0	Y	50/500
FPE214030		0.22	30.0	Y	50/500
FPE414013		0.45	13.0	Y	100/1000
FPE414025		0.45	25.0	Y	50/500
FPE414030		0.45	30.0	Y	50/500
CA216013	SFCA	0.22	13.0	Y	100/1000
CA216025		0.22	25.0	Y	50/500
CA216030		0.22	30.0	Y	50/500
CA416013		0.45	13.0	Y	100/1000
CA416025		0.45	25.0	Y	50/500
CA416030		0.45	30.0	Y	50/500
SCA217013	SFC	0.22	13.0	Y	100/1000
SCA217025		0.22	25.0	Y	50/500
SCA217030		0.22	30.0	Y	50/500
SCA417013		0.45	13.0	Y	100/1000
SCA417025		0.45	25.0	Y	50/500
SCA417030		0.45	30.0	Y	50/500

**Bulk Package, Non-Steri**

Cat.No	Membrane Material	Pore Size (µm)	Housing Diameter(mm)	Sterile	Qty. per box/case
FMC221013	MCE	0.22	13.0	N	100/1000
FMC221025		0.22	25.0	N	50/500
EMC221030		0.22	30.0	N	50/500
FMC421013		0.45	13.0	N	100/1000
FMC421025		0.45	25.0	N	50/500
FMC421030		0.45	30.0	N	50/500
FPV123013	PVDF	0.10	13.0	N	100/1000
FPV123025		0.10	25.0	N	50/500
FPV123030		0.10	30.0	N	50/500
FPV223013		0.22	13.0	N	100/1000
FPV223025		0.22	25.0	N	50/500
FPV223030		0.22	30.0	N	50/500
FPV423013	PTFE	0.45	13.0	N	100/1000
FPV423025		0.45	25.0	N	50/500
FPV423030		0.45	30.0	N	50/500
PTF225013		0.22	13.0	N	100/1000
PTF225025		0.22	25.0	N	50/500
PTF225030		0.22	30.0	N	50/500
PTF425013	Nylon	0.45	13.0	N	100/1000
PTF425025		0.45	25.0	N	50/500
PTF425030		0.45	30.0	N	50/500
FNY222013		0.22	13.0	N	100/1000
FNY222025		0.22	25.0	N	50/500
FNY222030		0.22	30.0	N	50/500
FNY422013	PES	0.45	13.0	N	100/1000
FNY422025		0.45	25.0	N	50/500
FNY422030		0.45	30.0	N	50/500
FPE124013		0.1	13.0	N	100/1000
FPE124025		0.1	25.0	N	50/500
FPE124030		0.1	30.0	N	50/500
FPE224013	CA	0.22	13.0	N	100/1000
FPE224025		0.22	25.0	N	50/500
FPE224030		0.22	30.0	N	50/500
FPE424013		0.45	13.0	N	100/1000
FPE424025		0.45	25.0	N	50/500
FPE424030		0.45	30.0	N	50/500
CA226013	SFCA	0.22	13.0	N	100/1000
CA226025		0.22	25.0	N	50/500
CA226030		0.22	30.0	N	50/500
CA426013		0.45	13.0	N	100/1000
CA426025		0.45	25.0	N	50/500
CA426030		0.45	30.0	N	50/500
SCA417013	SFC	0.22	13.0	N	100/1000
SCA417025		0.22	25.0	N	50/500
SCA417030		0.22	30.0	N	50/500
SCA417013		0.45	13.0	N	100/1000
SCA417025		0.45	25.0	N	50/500
SCA417030		0.45	30.0	N	50/500





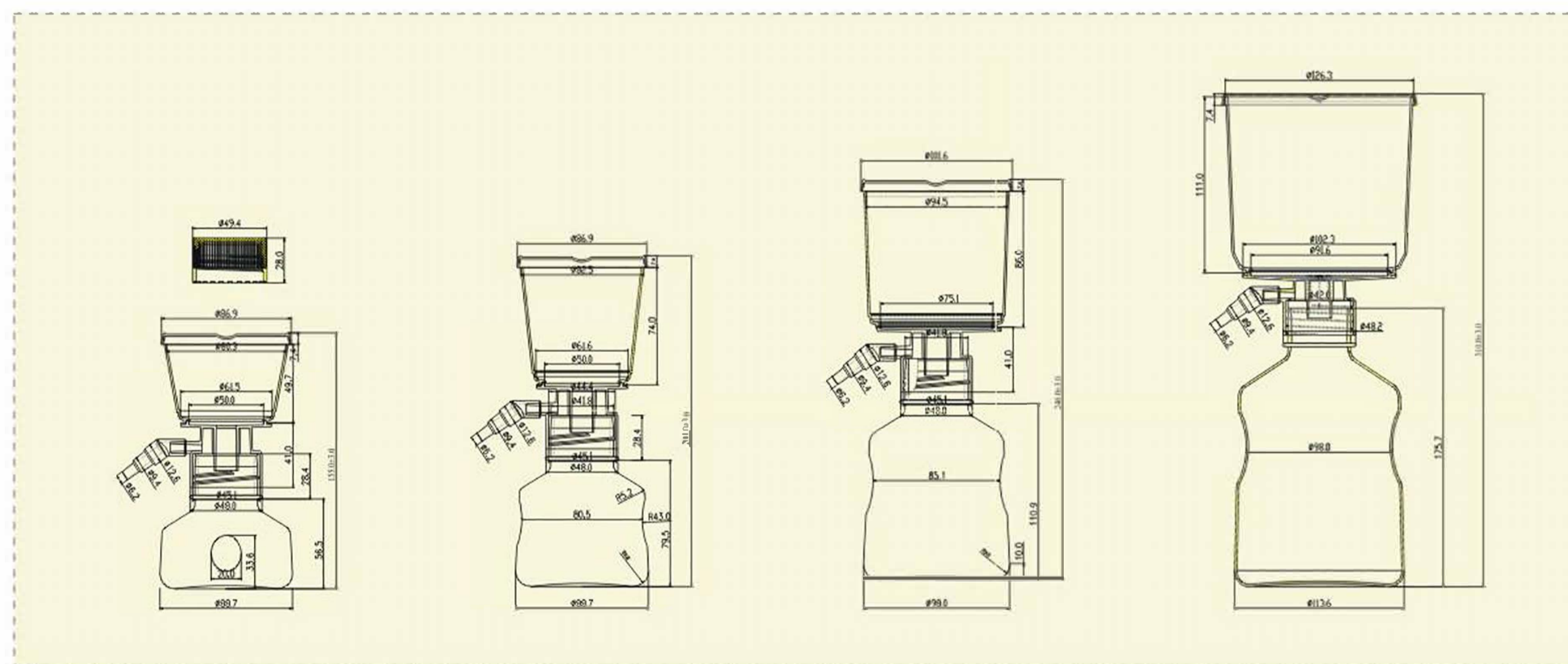
## Vacuum Filtration

Vacuum filters are very useful in large volume samples separation and purification.

- \* Available with 5 membrane sorts of PVDF, PES, MCE, Nylon and CA
- \* 3 membrane pore sizes of 0.10µm, 0.22µm and 0.45µm
- \* 4 volumes size of 150, 250, 500 and 1000ml
- \* Light weight and heavy wall construction
- \* Large knurls on the reservoir bottle cap for easy screw
- \* Designed wide and easy access bottle mouth for efficiently and stably pour out
- \* Engraved graduation ensure veracity
- \* Ergonomically designed sidewalls and collar can simplify tightening/loosening and adjustments
- \* Designed hose connector can fit multiplicate hose diameters
- \* Non-pyrogenic
- \* Gamma irradiation sterilied

## Ordering Information

- \* Vacuum packaged in easy tear-to-open plastic bag and receiver bottle cap is individually wrapped
- \* Each individual unit is lot-numbered for easy identification and tracking



Housing Material	Filter Upper Cup Capacity(ml)	Full Unit Overall Height	Filter Diameter(mm)	Working Volume(ml)	Hold-up Volume (ml)	Linker and Cap Material	Fitting Outlet(mm)	Maximum Operating Temperature (°C)
ABS	150	156	50	150	3	PP	45	45
ABS	250	200	50	250	3	PP	45	45
ABS	500	245	75	500	3	PP	45	45
ABS	1000	310	91	1000	3	PP	45	45



## Disposable Filtration Products

**JET BIOFIL®** Laboratory Filtration Products series, including syringe Driven Filters and Vacuum Filtration, are designed specifically for the filtration of culture media and organic solvents in research and industrial laboratories. They are purpose-built with features designed to bring the highest levels of performance and purity to your research. A variety of membrane types and membrane areas can be choosed that offer the wide applicability range for separation and purification of most liquid samples to meet different laboratory needs. The filtration products should be driven by syringes or vacuum pumps. All the produces are manufactured with high quality material (ABS, PP or GPPS) and by proficiented technique, which assure them can work under pressure and still hold integrity.

### JET Tips on choosing membrane

#### MCE (Mixed Cellulose Ester)

By the mixture of nitrocellulose and cellulose acetate, hydrophilic, chemical compatibility, low protein adsorption. The use temperature can not be higher than 40 °C, the optimum pH range is 3-6. Particle analysis, particle removal, biochemical analysis, HPLC sample preparation for general media and aqueous solutions. Can not be used to filter ethanol and alkaline solution.

#### Nylon

Providing a broad range of chemical compatibility of the filtration of either aqueous or organic solvents; hydrophilic; can be used in a broad pH range.

#### PVDF (Polyvinylidene fluoride)

Extremely low protein-binding; for filtration of non-aggressive aqueous and mild organic solutions, or were maximizing protein recovery is important.

#### PES (Polyethersulfone)

Low-affinity for proteins and extractable with substantially faster flow rates than PVDF; suitable for pre-filtration and filtration of buffers and culture media.

#### PTFE (Polytetrafluoroethylene)

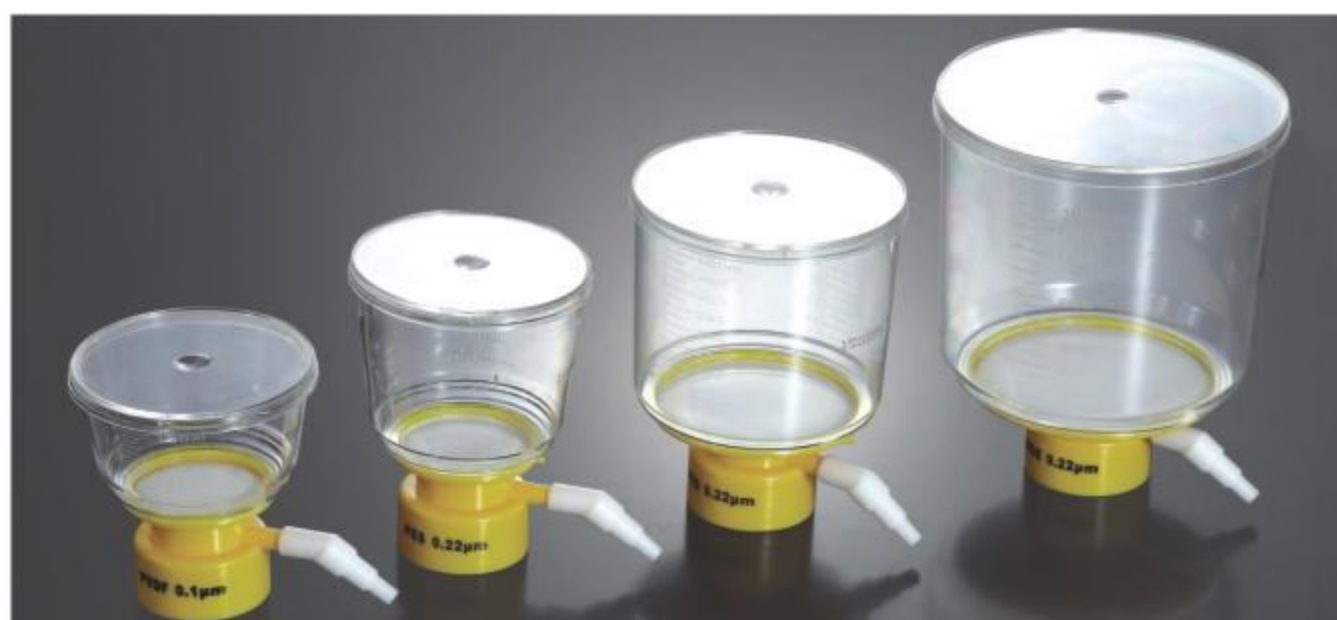
Extremly strong chemically resistant and is compatible with various sterilizing methods; ideal for gas and in organic or organic samples in aggressive environments.

#### CA

Lowest binding material available  
Hydrophilic and high throughput  
Strength and dimension stability  
Uniform pore structure

Cat.No	Membrane Material	Pore Size(µm)	Capacity(ml)	Membrane Diameter(mm)	Qty.per box/case	
FPV103150	PVDF	0.1	150	Φ50	1/12	
FPV103250		0.1	250	Φ50	1/12	
FPV103500		0.1	500	Φ75	1/12	
FPV103000		0.1	1000	Φ91	1/12	
FPV203150		0.22	150	Φ50	1/12	
FPV203250		0.22	250	Φ50	1/12	
FPV203500		0.22	500	Φ75	1/12	
FPV203000		0.22	1000	Φ91	1/12	
FPV403150		0.45	150	Φ50	1/12	
FPV403250		0.45	250	Φ50	1/12	
FPV403500		0.45	500	Φ75	1/12	
FPV403000		0.45	1000	Φ91	1/12	
FMC201150	MCE	0.22	150	Φ50	1/12	
FMC201250		0.22	250	Φ50	1/12	
FMC201500		0.22	500	Φ75	1/12	
FMC201000		0.22	1000	Φ91	1/12	
FMC401150		0.45	150	Φ50	1/12	
FMC401250		0.45	250	Φ50	1/12	
FMC401500		0.45	500	Φ75	1/12	
FMC401000		0.45	1000	Φ91	1/12	
FPE204150		PES	0.22	150	Φ50	1/12
FPE204250			0.22	250	Φ50	1/12
FPE204500			0.22	500	Φ75	1/12
FPE204000			0.22	1000	Φ91	1/12
FPE404150	0.45		150	Φ50	1/12	
FPE404250	0.45		250	Φ50	1/12	
FPE404500	0.45		500	Φ75	1/12	
FPE404000	0.45		1000	Φ91	1/12	
FNY202150	Nylon		0.22	150	Φ50	1/12
FNY202250			0.22	250	Φ50	1/12
FNY202500			0.22	500	Φ75	1/12
FNY202000			0.22	1000	Φ91	1/12
FNY402150		0.45	150	Φ50	1/12	
FNY402250		0.45	250	Φ50	1/12	
FNY402500		0.45	500	Φ75	1/12	
FNY402000		0.45	1000	Φ91	1/12	
FCA206150		CA	0.22	150	Φ50	1/12
FCA206250			0.22	250	Φ50	1/12
FCA206500			0.22	500	Φ75	1/12
FCA206000			0.22	1000	Φ91	1/12
FCA406150	0.45		150	Φ50	1/12	
FCA406250	0.45		250	Φ50	1/12	
FCA406500	0.45		500	Φ75	1/12	
FCA406000	0.45		1000	Φ91	1/12	
FPE234150	PES Express		0.22	150	Φ50	1/12
FPE434150			0.45	150	Φ50	1/12
FPE234250			0.22	250	Φ50	1/12
FPE434250			0.45	250	Φ50	1/12
FPE234500		0.22	500	Φ75	1/12	
FPE434500		0.45	500	Φ75	1/12	
FPE234000		0.22	1000	Φ91	1/12	
FPE434000		0.45	1000	Φ91	1/12	
FPE244250		PES	0.22	250	Φ75	1/12
FPE444250			0.45	250	Φ75	1/12





## Filter Upper Cup

Vacuum filters are very useful in large volume samples separation And purification.

- \* Available with 5 membrane sorts of PVDF, PES, MCE ,CA and Nylon
- \* 3 membrane pore sizes of 0.10µm, 0.22µm and 0.45µm
- \* 4 volume sizes of 150, 250, 500 and 1000ml
- \* Light weight and heavy wall construction
- \* Designed wide and easy access bottle mouth for efficiently and stably
- \* Non-pyrogenic
- \* Gamma irradiation sterilised

### Ordering Information

- \* Packaged in easy peel-to-open plastic bag, and receiver bottle cap is individually wrapped
- \* Each individual unit is lot-numbered for easy identification

### Reservoir Bottle

Cat.No	Membrane	Material	Capacity(ml)	Sterile	Qty. per bag/case
FRB000150			150	Y	1/24
FRB000250			250	Y	1/24
FRB000500	PS		500	Y	1/24
FRB000000			1000	Y	1/24



Cat.No	Membrane	Material	Pore Size(µm)	Capacity(ml)	Membrane Diameter(mm)	Qty. per bag/case	
FPV113150	PVDF		0.1	150	Φ50	1/24	
FPV113250			0.1	250	Φ50	1/24	
FPV113500			0.1	500	Φ75	1/24	
FPV113000			0.1	1000	Φ91	1/24	
FPV213150				0.22	150	Φ50	1/24
FPV213250				0.22	250	Φ50	1/24
FPV213500				0.22	500	Φ75	1/24
FPV213000				0.22	1000	Φ91	1/24
PFV413150				0.45	150	Φ50	1/24
PFV413250				0.45	250	Φ50	1/24
PFV413500				0.45	500	Φ75	1/24
FPV413000				0.45	1000	Φ91	1/24
FMC211150	MCE		0.22	150	Φ50	1/24	
FMC211250			0.22	250	Φ50	1/24	
FMC211500			0.22	500	Φ75	1/24	
FMC211000			0.22	1000	Φ91	1/24	
FMC411150				0.45	150	Φ50	1/24
FMC411250				0.45	250	Φ50	1/24
FMC411500				0.45	500	Φ75	1/24
FMC411000				0.45	1000	Φ91	1/24
FPE214150	PES		0.22	150	Φ50	1/24	
FPE214250			0.22	250	Φ50	1/24	
FPE214500			0.22	500	Φ75	1/24	
FPE214000			0.22	1000	Φ91	1/24	
FPE414150				0.45	150	Φ50	1/24
FPE414250				0.45	250	Φ50	1/24
FPE414500				0.45	500	Φ75	1/24
FPE414000				0.45	1000	Φ91	1/24
FNY212150	Nylon		0.22	150	Φ50	1/24	
FNY212250			0.22	250	Φ50	1/24	
FNY212500			0.22	500	Φ75	1/24	
FNY212000			0.22	1000	Φ91	1/24	
FNY412150				0.45	150	Φ50	1/24
FNY412250				0.45	250	Φ50	1/24
FNY412500				0.45	500	Φ75	1/24
FNY412000				0.45	1000	Φ91	1/24
FCA216150	FCA		0.45	150	Φ50	1/24	
FCA216250			0.45	250	Φ50	1/24	
FCA216500			0.45	500	Φ75	1/24	
FCA216000			0.45	1000	Φ91	1/24	
FCA416150				0.22	150	Φ50	1/24
FCA416250				0.22	250	Φ50	1/24
FCA416500				0.22	500	Φ75	1/24
FCA416000				0.45	250	Φ75	1/24
FPE254250	PES		0.22	1000	Φ91	1/24	
FPE454250			0.22	250	Φ75	1/24	
FPE234150	PES Express		0.22	150	Φ50	1/24	
FPE234250			0.22	250	Φ50	1/24	
FPE234500			0.22	500	Φ75	1/24	
FPE234000			0.22	1000	Φ91	1/24	





Tube Top Vacuum Filters



Tube Vacuum Filter System

## Tube Top Vacuum Filters

- \* 50mm diameter membrane
- \* 2 pore sizes of 0.22 $\mu$ m, 0.45 $\mu$ m, 5 membrane types of CA, PES, MCE, PVDF and Nylon
- \* Minimize unnecessary transfers by filtering directly into centrifuge tube
- \* Each polypropylene centrifuge tube is supplied with an individually wrapped cap for storage
- \* Gamma radiation sterilized
- \* Non-pyrogenic

Cat.No	Membrane Material	Pore Size( $\mu$ m)	Funnel/Tube Size(ml)	Sterile	Qty. per bag/case
FCF000001	CA	0.45	150/50	Y	1/24
FCF000002		0.22	150/50	Y	1/24
FCF000003	PES	0.45	150/50	Y	1/24
FCF000004		0.22	150/50	Y	1/24
FCF000005	MCE	0.45	150/50	Y	1/24
FCF000006		0.22	150/50	Y	1/24
FCF000007	PVDF	0.45	150/50	Y	1/24
FCF000008		0.22	150/50	Y	1/24
FCF000009	Nylon	0.45	150/50	Y	1/24
FCF000010		0.22	150/50	Y	1/24

## Tube Vacuum Filter System(including tube, cap and stand)

Cat.No	Membrane Material	Pore Size( $\mu$ m)	Funnel/Tube Size(ml)	Sterile	Qty. per bag/case
FCF010001	CA	0.45	150/50	Y	1/12
FCF010002		0.22	150/50	Y	1/12
FCF010003	PES	0.45	150/50	Y	1/12
FCF010004		0.22	150/50	Y	1/12
FCF010005	MCE	0.45	150/50	Y	1/12
FCF010006		0.22	150/50	Y	1/12
FCF010007	PVDF	0.45	150/50	Y	1/12
FCF010008		0.22	150/50	Y	1/12
FCF010009	Nylon	0.45	150/50	Y	1/12
FCF010010		0.22	150/50	Y	1/12

### Ordering Information

- \* Packaged in resealable bag, and centrifuge tube cap is individually wrapped
- \* Each individual unit is lot-numbered for easy identification and tracking