FILTER TECHNOLOGY

EXTRACTO

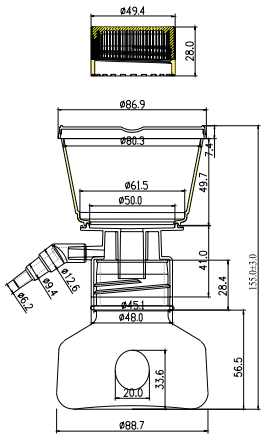
Vacuum Filtration

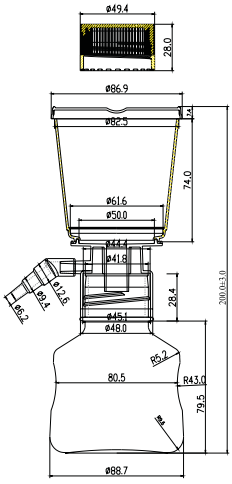
GVS Vacuum Filters are very useful in large volume samples separation and purification.

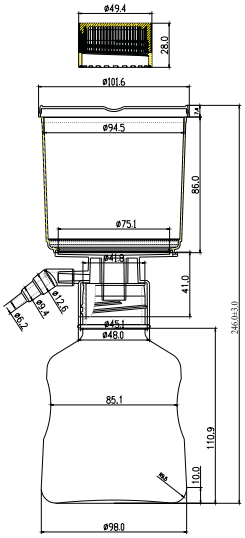
- Available with 5 membrane sorts of PVDF, PES, MCE ,Nylon and CA
- 3 membrane pore sizes of 0.10 μm, 0.22 μm and 0.45 μm
- 4 volumes size of 150, 250, 500 and 1000 ml
- Light weight and heavy wall construction
- Large knurls on the reservoir bottle cap for easy screw
- Designed wide and easy access 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 sterilized

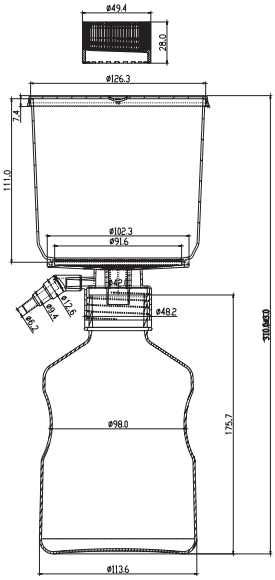
Ordering Information

- 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	Capacity (ml)	Full Unit Overall Height (mm)	Filter Diameter (mm)	Working Volume (mm)	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	500	75	500	3	PP	45	45
ABS	1000	1000	91	1000	3	PP	45	45

Disposable Filtration Products

GVS Laboratory Filtration Products series, including syringe filters and Vacuum Filters, 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 are for choice 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 products are manufactured with high quality material [Acrilonitrile butadiene stirene (ABS), Polypropylene (PP) or Polystyrene (GPPS)] and by proven technique, which assure them work under pressure and still hold integrity.

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, HPLCsample preparation for general media and aqueous solutions.

Can not be used to filter ethanol and alkaline solution.

Membrane Material	Pore Size (µm)	Capacity (ml)	Membrane Diameter (mm)	Package	Cat No.
MCE	0,22	150	Ø50	12/PK	EXVF0150YNC02AZS
	0,22	250	Ø50	12/PK	EXVF0250YNC02AZS
	0,22	500	Ø75	12/PK	EXVF0500YNC02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YNC02CZS
	0,45	150	Ø50	12/PK	EXVF0150YNC04AZS
	0,45	250	Ø50	12/PK	EXVF0250YNC04AZS
	0,45	500	Ø75	12/PK	EXVF0500YNC04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YNC04CZS
PES	0,1	150	Ø50	12/PK	EXVF0150YPS01AZS
	0,1	250	Ø50	12/PK	EXVF0250YPS01AZS
	0,1	500	Ø75	12/PK	EXVF0500YPS01BZS
	0,1	1000	Ø91	12/PK	EXVF1000YPS01CZS
	0,22	150	Ø50	12/PK	EXVF0150YPS02AZS
	0,22	250	Ø50	12/PK	EXVF0250YPS02AZS
	0,22	250	Ø75	12/PK	EXVF0250YPS02BZS
	0,22	500	Ø75	12/PK	EXVF0500YPS02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YPS02CZS
	0,45	150	Ø50	12/PK	EXVF0150YPS04AZS
	0,45	250	Ø50	12/PK	EXVF0250YPS04AZS
	0,45	250	Ø75	12/PK	EXVF0250YPS04BZS
	0,45	500	Ø75	12/PK	EXVF0500YPS04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YPS04CZS
PVDF	0,1	150	Ø50	12/PK	EXVF0150YPV01AZS
	0,1	250	Ø50	12/PK	EXVF0250YPV01AZS
	0,1	500	Ø75	12/PK	EXVF0500YPV01BZS
	0,1	1000	Ø91	12/PK	EXVF1000YPV01CZS
	0,22	150	Ø50	12/PK	EXVF0150YPV02AZS
	0,22	250	Ø50	12/PK	EXVF0250YPV02AZS
	0,22	500	Ø75	12/PK	EXVF0500YPV02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YPV02CZS
	0,45	150	Ø50	12/PK	EXVF0150YPV04AZS
	0,45	250	Ø50	12/PK	EXVF0250YPV04AZS
	0,45	500	Ø75	12/PK	EXVF0500YPV04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YPV04CZS

NY (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)

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

CA (Cellulose Acetate)

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

Membrane Material	Pore Size (µm)	Capacity (ml)	Membrane Diameter (mm)	Package	Cat No.
Nylon	0,22	150	Ø50	12/PK	EXVF0150YNY02AZS
	0,22	250	Ø50	12/PK	EXVF0250YNY02AZS
	0,22	500	Ø75	12/PK	EXVF0500YNY02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YNY02CZS
	0,45	150	Ø50	12/PK	EXVF0150YNY04AZS
	0,45	250	Ø50	12/PK	EXVF0250YNY04AZS
	0,45	500	Ø75	12/PK	EXVF0500YNY04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YNY04CZS
CA	0,22	150	Ø50	12/PK	EXVF0150YCA02AZS
	0,22	250	Ø50	12/PK	EXVF0250YCA02AZS
	0,22	500	Ø75	12/PK	EXVF0500YCA02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YCA02CZS
	0,45	150	Ø50	12/PK	EXVF0150YCA04AZS
	0,45	250	Ø50	12/PK	EXVF0250YCA04AZS
	0,45	500	Ø75	12/PK	EXVF0500YCA04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YCA04CZS
PES Hi-Flo	0,22	150	Ø50	12/PK	EXVF0150YPX02AZS
	0,22	250	Ø50	12/PK	EXVF0250YPX02AZS
	0,22	500	Ø75	12/PK	EXVF0500YPX02BZS
	0,22	1000	Ø91	12/PK	EXVF1000YPX02CZS
	0,45	150	Ø50	12/PK	EXVF0150YPX04AZS
	0,45	250	Ø50	12/PK	EXVF0250YPX04AZS
	0,45	500	Ø75	12/PK	EXVF0500YPX04BZS
	0,45	1000	Ø91	12/PK	EXVF1000YPX04CZS

Bottle Top Filter

GVS Bottle Top Filters are very useful in research laboratories for sterilization or laboratory fluid clarification

- Available with 5 membrane sorts of PVDF, PES, MCE,CA and Nylon
- 3 membrane pore sizes of 0.10 μm, 0.22 μm and 0.45 μm
- 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 sterilized

Ordering Information

- Packaged in easy peel-to-open plastic bag
- Each individual unit is lot-numbered for easy identification

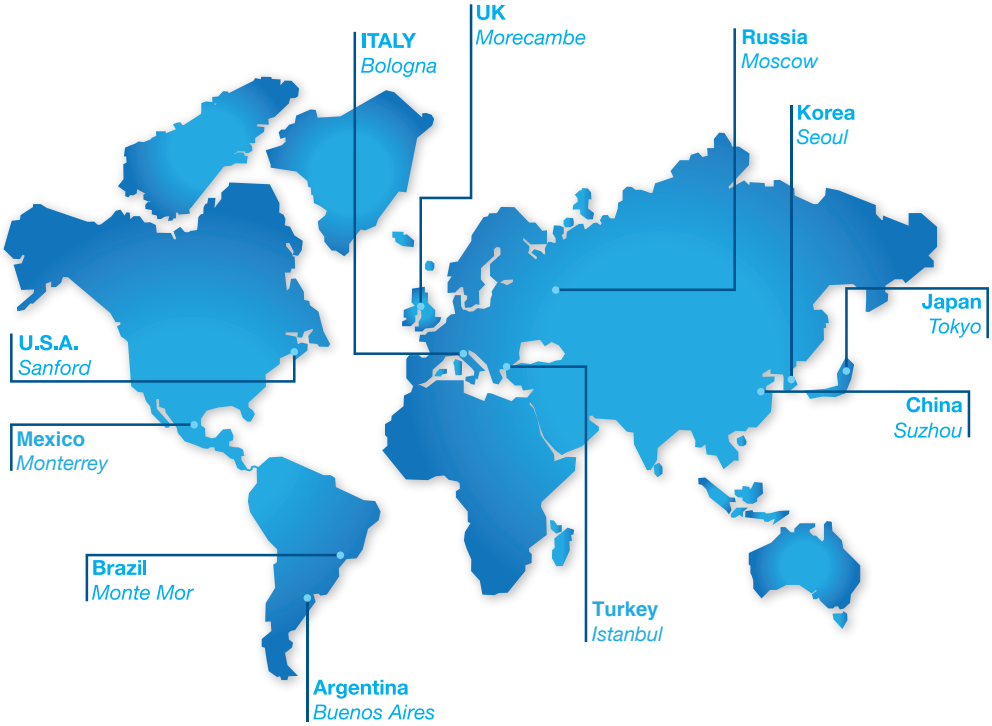
Membrane Material	Pore Size (μm)	Capacity (ml)	Membrane Diameter (mm)	Package	Cat No.
PES	0.10	150	Ø50	24/PK	EXBT0150YPS01AWS
	0.10	250	Ø50	24/PK	EXBT0250YPS01AWS
	0.10	500	Ø75	24/PK	EXBT0500YPS01BWS
	0.10	1000	Ø91	24/PK	EXBT1000YPS01CWS
	0,22	150	Ø50	24/PK	EXBT0150YPS02AWS
	0,22	250	Ø50	24/PK	EXBT0250YPS02AWS
	0,22	250	Ø75	24/PK	EXBT0250YPS02BWS
	0,22	500	Ø75	24/PK	EXBT0500YPS02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YPS02CWS
	0,45	150	Ø50	24/PK	EXBT0150YPS04AWS
	0,45	250	Ø50	24/PK	EXBT0250YPS04AWS
	0,45	250	Ø75	24/PK	EXBT0250YPS04BWS
	0,45	500	Ø75	24/PK	EXBT0500YPS04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YPS04CWS
PVDF	0.10	150	Ø50	24/PK	EXBT0150YPV01AWS
	0.10	250	Ø50	24/PK	EXBT0500YPV01AWS
	0.10	500	Ø75	24/PK	EXBT0500YPV01BWS
	0.10	1000	Ø91	24/PK	EXBT1000YPV01CWS
	0,22	150	Ø50	24/PK	EXBT0150YPV02AWS
	0,22	250	Ø50	24/PK	EXBT0250YPV02AWS
	0,22	500	Ø75	24/PK	EXBT0500YPV02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YPV02CWS
	0,45	150	Ø50	24/PK	EXBT0150YPV04AWS
	0,45	250	Ø50	24/PK	EXBT0250YPV04AWS
	0,45	500	Ø75	24/PK	EXBT0500YPV04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YPV04CWS

Membrane Material	Pore Size (μm)	Capacity (ml)	Membrane Diameter (mm)	Package	Cat No.
MCE	0,22	150	Ø50	24/PK	EXBT0150YNC02AWS
	0,22	250	Ø50	24/PK	EXBT0250YNC02AWS
	0,22	500	Ø75	24/PK	EXBT0500YNC02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YNC02CWS
	0,45	150	Ø50	24/PK	EXBT0150YNC04AWS
	0,45	250	Ø50	24/PK	EXBT0250YNC04AWS
	0,45	500	Ø75	24/PK	EXBT0500YNC04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YNC04CWS
PES Hi-Flo	0,22	150	Ø50	24/PK	EXBT0150YPX02AWS
	0,22	250	Ø50	24/PK	EXBT0250YPX02AWS
	0,22	500	Ø75	24/PK	EXBT0500YPX02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YPX02CWS
	0,45	150	Ø50	24/PK	EXBT0150YPX04AWS
	0,45	250	Ø50	24/PK	EXBT0250YPX04AWS
	0,45	500	Ø75	24/PK	EXBT0500YPX04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YPX04CWS
Nylon	0,22	150	Ø50	24/PK	EXBT0150YNY02AWS
	0,22	250	Ø50	24/PK	EXBT0250YNY02AWS
	0,22	500	Ø75	24/PK	EXBT0500YNY02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YNY02CWS
	0,45	150	Ø50	24/PK	EXBT0150YNY04AWS
	0,45	250	Ø50	24/PK	EXBT0250YNY04AWS
	0,45	500	Ø75	24/PK	EXBT0500YNY04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YNY04CWS
CA	0,22	150	Ø50	24/PK	EXBT0150YCA02AWS
	0,22	250	Ø50	24/PK	EXBT0250YCA02AWS
	0,22	500	Ø75	24/PK	EXBT0500YCA02BWS
	0,22	1000	Ø91	24/PK	EXBT1000YCA02CWS
	0,45	150	Ø50	24/PK	EXBT0150YCA04AWS
	0,45	250	Ø50	24/PK	EXBT0250YCA04AWS
	0,45	500	Ø75	24/PK	EXBT0500YCA04BWS
	0,45	1000	Ø91	24/PK	EXBT1000YCA04CWS

Solution Bottle

Capacity(ml)	Sterile	Package	Cat No.
150	Yes	24/PK	EXB00150G000000WS
250	Yes	24/PK	EXB00250G000000WS
500	Yes	24/PK	EXB00500G000000WS
1000	Yes	24/PK	EXB01000G000000WS

FILTER TECHNOLOGY



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