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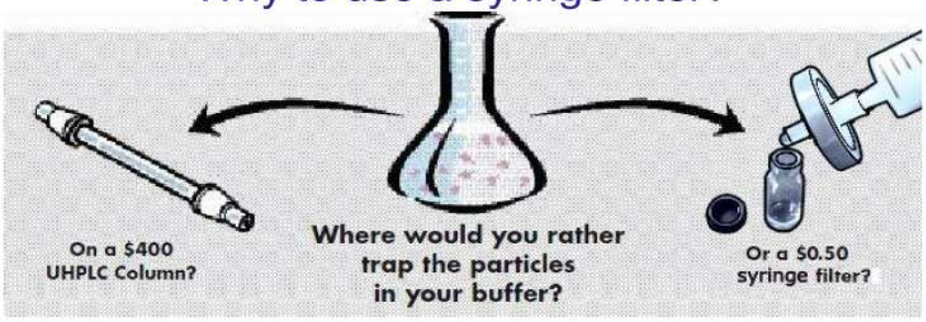
Qualisil®

Syringe Filter

Features

- Color coding of each unit for easy identification
- Added sample distribution ring
- Resistance high pressure
- Only Layer Membrane Structure, less dissolution content
- Passed HPLC Test

Why to use a syringe filter?



Step :1 Choose the suitable membrane filtration medium Characteristics of samples

Solutions	Recommended
Solvent Mixtures	Nylon, Hydrophilic PTFE,
Tissue culture Media, Buffers, Protein Analysis/Biological Samples	CA, PES, MCE, Hydrophilic PVDF
High Particulate Loads	PP, GF, Filter with pre-filter
Aggressive or Pure Organic Solvents	Hydrophobic PTFE,PVDF

Step :2 Choose the suitable diameter

Volume of samples	Recommended
<10ml	13mm
<100ml	25mm

Step :3 Choose the suitable pore size based on the nature of your sample

- Removal of high particulate matter with a pre filter is critical before any drug, toxic, or dirty environmental sample os filtered to ensure the highest syringe filter membrane performance.
- Generally, 0.45um porosity filters are used to remove particulates from samples and mobile phase solutions. For Sterile-filtration, a 0.20um porosity filter can be used.

Parameters	13mm		25mm	
Filtration area (cm2)	0.92		2.98	
Normal Pore Size (µm)	0.22	0.45	0.22	0.45
Holdup volume (µl)	<10		<100	
Smaple volumne (ml)	<10		<120	
Inlet /Outlet	Female luer lock/Male luer slip			
Maxnimum Operating Temperature	50°C		50°C	
Maxnimum Operating Pressure (psi)	>87		>87	

Chemical Compatibility Table

Note +: Resistant o: Limited Resistant -:Not Resistant

Solvent	MCE	CA	NY	PTE	H-PTF	PVDF	PES	GF	PP
Acetaldehyde	–	–	o	+	+	+		+	o
Acetic acid, 100%	–	–	–	+	+	+	+	+	+
Acetone	–	–	+	+	+			+	+
Acetonitrile	–	–	+	+	+	+	+	+	+
Ammonia, 25%	–	–	–	+	+	+	+	+	+
Benzene	+	+	+	+	+	o		+	o
n-Butanol	+	+	o	+	+	+	+	+	+
Cyclohexane	+	+	o	+	+	+	+	+	+
Dichloromethane	+	–	–	+	+	+	–	+	–
Diethyl ether	o	o	+	+	+	+	+	+	o
Dimethylformamide	–	–	+	+	+	–	–	+	+
1,4-Dioxane	–	–	+	+	+	o	–	+	o
Ethanol	–	+	+	+	+	+	+	+	+
Ethyl acetate	–	–	+	+	+	+	+	+	o
Ethylene glycol	o	o	+	+	+	+	+	+	+
Formic acid, 100%	+	–	–	+	+	+	+	+	+
Hydrochloric acid, 30%	–	–	–	+	+	+	+	+	+
Methanol	–	–	+	+	+	+	+	+	+
Nitric acid, 65%	–	–	–	o	o	o		+	–
Oxalic acid, 10% aqueous	+	–	–	+	+	+		+	+
Petroleum ether	+	+	+	+	+	+	+	+	+
Phosphoric acid, 80%	–	–	–	+	+	o		+	+
Potassium hydroxyde,	–	–	+	+	+	o	+	+	+
2-Propanol	+	+	+	+	+	+	+	+	+
Sodium hydroxyde, 1 mol/L	–	–	+	+	+	o	o	o	+
Tetrachloromethane	+	–	+	+	+	o		+	o
Tetrahydrofuran	–	–	o	+	+	+	–	+	o
Toluene	+	–	+	+	+	+	+	+	o
Trichloroethene	+	+	o	+	+	+		+	o
Trichloromethane	+	–	–	+	+	+	–	+	–
Urea	+	+	+	+	+	+		+	+
Water	+	+	+	+	+	+	+	+	+
Xylene	+	+	+	+	+	o		+	o

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PES Syringe Filter

- Hydrophilic property
- High flow rate and high Throughputs
- Low protein binding
- Low in extractables
- Suitable for removing small particles, bacteria, viruses
- And fungi aqueous phase.
- Normally used with PH 3-12.

Part No	Diameter	Pore Size	Package
QPES1345	13mm	0.45um	Pk/100
QPES1322	13mm	0.22um	Pk/100
QPES2545	25mm	0.45um	Pk/100
QPES2522	25mm	0.22um	Pk/100

MCE Syringe Filter

- Better hydrophilic property
- Low protein binding
- Great water flux and better cutoff effect
- Ideal for aqueous based samples, tissue culture and sensitive biological samples
- Has a lower chemical resistance
- Autoclave: sterilized by dry heat at 121°C for 15mins

Part No	Diameter	Pore Size	Package
QMC1345	13mm	0.45um	Pk/100
QMCE1322	13mm	0.22um	Pk/100
QMCE2545	25mm	0.45um	Pk/100
QMCE2522	25mm	0.22um	Pk/100

CA Syringe Filter

- Hydrophilic property
- Low protein binding: suitable for aqueous protein solutions
- Nitrate free: suitable for groundwater filtration
- Quiet uniform pore size structure
- Extensive pore size specification
- Cell retention and particle collection

Part No	Diameter	Pore Size	Package
Q13CA022E	13mm	0.22um	Pk/100
Q13CA045E	13mm	0.45um	Pk/100
Q25CA022E	25mm	0.22um	Pk/100
Q25CA045E	25mm	0.45um	Pk/100

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Order Information :

Nylon Syringe Filter

- Hydrophilic property
- Uniform aperture
- Excellent chemical stability and flexibility, durable
- Suitable for filtration of aqueous and most organic solvent
- Compatibility with various sterlizing methods

Part No	Diameter	Pore Size	Package
QN1345	13mm	0.45um	Pk/100
QN1322	13mm	0.22um	Pk/100
QN2545	25mm	0.45um	Pk/100
QN2522	25mm	0.22um	Pk/100

PTFE Syringe Filter (Hydrophilic)

- Special treated PTFE with Hydrophilic property
- Broad chemical resistance
- Excellent particle retention
- Compatibility with various sterilizing methods
- Suitable for filtration all solutions, even for acetone, DMSO, THF, etc.
- Normally used with pH range 1-14

Part No	Diameter	Pore Size	Package
Q13PTL022E	13mm	0.22um	Pk/100
Q13PTL045E	13mm	0.45um	Pk/100
Q25PTL022E	25mm	0.22um	Pk/100
Q25PTL045E	25mm	0.45um	Pk/100

PVDF Syringe Filter Hydrophilic

- Hydrophonic property
- 100% polypropylene construction
- Excellent for difficult-to-filter dissolution samples
- Acid and base resistant
- Wide Chemical compatibility with solvents
- High throughput for viscous samples

Part No	Diameter	Pore Size	Package
Q13PVL022E	13mm	0.22um	Pk/100
Q13PVL045E	13mm	0.45um	Pk/100
Q25PVL022E	25mm	0.22um	Pk/100
Q25PVL045E	25mm	0.45um	Pk/100