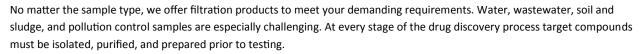
## **Velocity Scientific Solutions**

## **Syringe Filters**

With their low extractables and low binding membranes, our syringe filters are ideal for sensitive instrumental analysis including gas, liquid and ion chromatography. A wide range of chemical compatibility enables their use with virtually any sample composition.

- Increased column lifetime
- Less system down time
- Consistent, reproducible results

In today's environment, rapid and simple sample preparation is a must. Our syringe filters are designed for higher flow rates and throughputs than those of competing products.



Difficult samples such as serum, urine and other physiological fluids are easily filtered and clarified using our syringe filters. Removal of particulate matter to sub-micron levels is critical before any clinical sample is injected into an HPLC, GC or mass spectrometer. At every stage of toxicology, samples must be prepared prior to testing.

Food safety is more important than ever and decreasing detection limits are making analysis even more challenging. Accurate and reliable testing is critical to ensure food safety. Syringe filters are routinely used in preparation for analysis of pesticides, herbicides, fungicides, flavours and fragrances. For samples with large amounts of particulate and/or large fibrous matter, use a glass fibre prefilter.

#### Sample Prep for Chromatography

Applications • General particulate removal • GC • IC • HPLC • UHHPLC • Dissolution testing Membranes PES- Fast flow and low protein binding Hydrophilic PTFE- Mild organics and aqueous solutions; low binding and extractables Nylon- Aqueous or organic solutions PTFE - Organic solvents (hydrophobic membrane)

# Applications General particulate removal Analytical Sample preparation Wine Analysis Membranes

**Viscous Filtration/ High Particulate** 

Use filters with prefilters for higher throughput Hydrophilic PTFE- organics and aqueous solutions Nylon- Aqueous or organic solutions PTFE - Organic solvents (hydrophobic membrane) PVDF - For mild organic and aqueous solutions

#### Laboratory Filtration

Applications

Particulate and clarification removal

Membranes

#### Use filters with prefilters for higher throughput

**NC-** Mixed Cellulose esters (MCE)- Aqueous solutions **PVDF** - ultra-low protein binding; mild organic and aqueous solutions

#### Sterile Filtration

- Applications
- Biological solutions
- Buffers
- Tissue culture media/additives

Membranes

PES- Fast flow and low protein binding

**PVDF** - Ultra-low protein binding **Hydrophilic PTFE**- Wide-ranging chemical compatibility

**NC-** Mixed Cellulose esters (MCE)- general purpose

## **Velocity Scientific Solutions**

### **25mm Syringe Filters**

Our syringe filters are designed for efficient and cost-effective rapid filtration of almost any solution prior to analysis, and are optimized for superior flow rates and high throughput. We offer a wide variety of membranes ideal for any application. The housing attaches to any standard Luer lock syringe, so the sample can easily be pushed through the membrane with minimal pressure. The result is a particulate-free eluent that is ready for use with HPLC, GC, or other analytical techniques.



Specifications	
Housing Material	100% homopolymer Polypropylene- no filling agents or release agents
Prefilter Material	Borosilicate Glass 1um
Effective Filtration Area	3.9 cm <sup>2</sup>
Sample Volume	< 150 mL
Inlet / Outlet Connections	Inlet = Female Luer Lock, Outlet = Male Luer Slip
Typical Hold Up Volume (no Prefilter)	< 125 uL
Typical Hold Up Volume (with Prefilter)	<150 uL
Maximum Operating Temperature	55° C (131° F)
Maximum Operating Pressure	60 psi

#### **Typical Syringe Filter Applications**

- **PES-** Protein and enzyme filtration sterilization
- PTFE (Hydrophilic)- Mild organics and aqueous solutions; low binding and extractables
- Nylon- Aqueous or organic solutions
- PTFE (Hydrophobic) Organic solvents
- CA Aqueous Solutions
- **PVDF** Amino Acid Analysis
- Nitrocellulose Microbiological analysis

Glass prefilters give you higher throughput for viscous or samples which are highly dirty.

	Size	25mm		25mm with Prefilter	25mm with Prefilter	
	Qty Per package	100	1000	100/PKG	1,000/PKG	
Nylon	.2um	NY02	NY022	NY0225P	NY0225P1	
	.45um	NY45	NY452	NY4525P	NY4525P1	
Cellulose Acetate	.2um	CA02	CA022	CA0225P	CA0225P1	
	.45um	CA45	CA452	CA4525P	CA4525P1	
Polypropylene	.2um	PP02	PP022	PP0225P	PP0225P1	
	.45um	PP45	PP452	PP4525P	PP4525P1	
PTFE - Hydrophobic	.2um	PT02	PT022	PT0225P	PT0225P1	
	.45um	PT45	PT452	PT4525P	PT4525P1	
PTFE - Hydrophilic	.2um	PTL02	PTL022	PTL0225P	PTL0225P1	
	.45um	PTL45	PTL452	PTL4525P	PTL4525P1	
PES	.2um	PE02	PE022	PE0225P	PE0225P1	
	.45um	PE45	PE452	PE4525P	PE4525P1	
Nitrocellulose - (MCE)	.2um	NC02	NC022	NC0225P	NC0225P1	
	.45um	NC45	NC452	NC4525P	NC4525P1	
PVDF	.2um	PV02	PV022	PV0225P	PV0225P1	
	.45um	PV45	PV452	PV4525P	PV4525P1	

# 13mm and 17mm Syringe Filters

Specifications	
Housing Material	100% Polypropylene
Effective Filtration Area	13mm = 0.8 cm <sup>2</sup> , 17mm = 1.0 cm2
Sample Volume	13mm = < 10 mL, 17mm = <12 mL
Inlet / Outlet Connections	Inlet = Female Luer Lock Outlet = Male Luer Slip
Typical Hold Up Volume	13mm = < 15 uL, 17mm = <18uL
Maximum Operating Temperature	55° C (131° F)
Maximum Operating Pressure	13mm = 100 psi, 17mm = 130 psi



		13mm		17mm	
		100 Pack	1,000 Pack	100 Pack	1,000 Pack
Nylon	.2um	13NY0	13NY025	17NY0	17NY025
	.45um	13NY4	13NY455	17NY4	17NY455
Cellulose Acetate	.2um	1302CA	1302CA5	17CA0	17CA025
	.45um	1345CA	1345CA5	17CA4	17CA455
Polypropylene	.2um	1302PP	1302PP5	17PP0	17PP025
	.45um	1345PP	1345PP5	17PP4	17PP455
PTFE - Hydrophobic	.2um	1302PT	1302PT5	17PT0	17PT025
	.45um	1345PT	1345PT5	17PT4	17PT455
PTFE - Hydrophilic	.2um	1302PL	1302PTL5	17PTL0	17PTL025
	.45um	1345PL	134PTL5	17PTL4	17PTL455
PES	.2um	1302PE	1302PE5	17PE0	17PE025
	.45um	1345PE	1345PE5	17PE4	PE4525P1
Nitrocellulose - (MCE)	.2um	1302NC	1302NC5	17NC0	17NC025
	.45um	1345PNC	1345NC5	17NC4	17NC455
PVDF	.2um	1302PV	1302PV5	17PV0	17PV025
	.45um	1345PV	1345PV5	17PV4	17PV455

# **Sterile Syringe Filters**

Housing Material	100% Polypropylene
Effective Filtration Area	3.9 cm <sup>2</sup>
Sample Volume	< 150 MI
nlet / Outlet Connections	Inlet = Female Luer Lock
met / Outlet connections	Outlet = Male Luer Slip
Гуріcal Hold Up Volume	< 125 uL
Maximum Operating Temperature	55° C (131° F)
Maximum Operating Pressure	60 psi



	Size	25mm		
	Qty Per package	100	1000	
Nylon	.2um	NY0225T	NY0225T1	
	.45um	NY4525T	NY4525T1	
Cellulose Acetate	.2um	CA0225T	CA0225T1	
	.45um	CA4525T	CA4525T1	
PES	.2um	PE0225T	PE0225T1	
	.45um	PE4525T	PE4525T1	
Nitrocellulose - (MCE)	.2um	NC0225T	NC0225T1	
	.45um	NC4525T	NC4525T1	