

## **MS<sup>®</sup> syringe filters**

**PVDF    PTFE    PES    MCE    NYLON**



**MS<sup>®</sup> syringe filters** are simply quality filters, well packaged, and offered at a fair and competitive price. The Classic range is available in all of the major membranes including **Nylon**, **PTFE**, **PES**, **MCE** and **PVDF** which are supplied in 13mm, 25mm and 33mm formats in virgin polypropylene housings.

Despite the attractive pricing, the emphasis is very much on quality. Membrane materials are supplied by the best names in the industry and the **ISO9000 certified** manufacturing is carried out to the highest standards, in certified clean room conditions, using the latest manufacturing technology to ensure a high quality, consistent product.

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## MS<sup>®</sup> PVDF Syringe Filter

### Picture:



### Product Description:

MS<sup>®</sup> Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

**PVDF** (Polyvinylidene fluoride) – extremely low protein-binding; for filtration of non-aggressive aqueous and mild organic solutions, or where maximizing protein recovery is important.

### Features and Benefits:

- Good heat-endurance and chemical stability, strong hydrophobicity
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes (0.22 $\mu$ m and 0.45 $\mu$ m)
- All items are quality tested for filter efficacy and housing integrity. The housing is pressure tested for use with up to 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- Some filters are individually wrapped sterile, certified RNase-free, DNase-free,
- Non-pyrogenic, and DNA-free.

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### Technical Specification:

Parameters	13mm	25mm	33mm
Membrane material	PVDF	PVDF	PVDF
Housing material	PP	PP	PP
Filter diameter (mm)	13mm	25mm	33mm
Filtration area (cm <sup>2</sup> )	0.65	3.90	4.60
Pore Size(μm)	0.22   0.45	0.22   0.45	0.22   0.45
Holdup volume (μl)	<10	<30	<55
Sample volume (ml)	<12	<100	<140
Maximum Operating Temperature	100°C	100°C	100°C
Maximum Operating Pressure (psi)	50	95	110
Applicable pH value	1-14	1-14	1-14

### Application:

- Gas filtration
- Vapor filtration
- High-temperature filtration
- Food industry
- Medicine filtration

### Order Information:

#### Nonsterile with a Female Luer-Lok inlet and Male Luer slip outlets.

Item Number	Membrane Material	Filter Pore Size(μm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PV022013	PVDF	0.22	13	100	36.49	29.19
PV022025			25	100	60.81	48.65
PV022033			33	100	74.32	59.46
PV045013		0.45	13	100	36.49	29.19
PV045025			25	100	60.81	48.65
PV045033			33	100	74.32	59.46

**Sterile, individually wrapped, with a Female Luer-Lok inlet and Male Luer slip outlets**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PV122013	PVDF	0.22	13	100	67.57	54.05
PV122025			25	100	105.41	84.32
PV122033			33	100	108.11	86.49
PV145013		0.45	13	100	67.57	54.05
PV145025			25	100	105.41	84.32
PV145033			33	100	108.11	86.49

## MS<sup>®</sup> PES Syringe Filter

**Picture:**



**Product Description:**

MS<sup>®</sup> Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

**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.

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### Features and Benefits:

- High filtration speed
- Low exeractables
- Lowest protein binding
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes(0.22µm and 0.45µm)
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, DNase- free,
- Non-pyrogenic, and DNA –free.

### Application:

- Sterile filtering protein solution
- Tissue culture media filtration
- Tissue culture additive filtration

### Technical Specification:

Parameters	13mm		25mm		33mm	
Membrane material	PES		PES		PES	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(µm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (µl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	90°C		90°C		90°C	
Maximum Operating Pressure (psi)	50		95		120	
Applicable pH value	1-14		1-14		1-14	

**Order Information:**

**Nonsterile with a Female Luer-Lok inlet and Male Luer slip outlets.**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PE022013	PES	0.22	13	100	36.49	29.19
PE022025			25	100	60.81	48.65
PE022033			33	100	74.32	59.46
PE045013		0.45	13	100	36.49	29.19
PE045025			25	100	60.81	48.65
PE045033			30	100	74.32	59.46

**Sterile, individually wrapped, with a Female Luer-Lok inlet and Male Luer slip outlets**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PE122013	PES	0.22	13	100	67.57	54.05
PE122025			25	100	105.41	84.32
PE122033			33	100	108.11	86.49
PE145013		0.45	13	100	67.57	54.05
PE145025			25	100	105.41	84.32
PE145033			30	100	108.11	86.49

## MS<sup>®</sup> PTFE Syringe Filter

### Picture:



### Product Description:

MS<sup>®</sup> Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

### Features and Benefits:

- Broad chemical compatibility
- Strong chemical stability and inertia
- Strong hydrophobicity
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes (0.22 $\mu$ m and 0.45 $\mu$ m) and four different membrane types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up to 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, Dnase-free,
- Non-pyrogenic, and DNA-free.

### Application:

- Organic solvent with strong chemical causticity filtration
- strong acid solvent filtration
- Alkali solvent filtration

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### Technical Specification:

Parameters	13mm	25mm	33mm
Membrane material	PTFE	PTFE	PTFE
Housing material	PP	PP	PP
Filter diameter (mm)	13mm	25mm	33mm
Filtration area (cm <sup>2</sup> )	0.65	3.90	4.60
Pore Size (µm)	0.22   0.45	0.22   0.45	0.22   0.45
Holdup volume (µl)	<10	<30	<55
Sample volume (ml)	<12	<100	<140
Maximum Operating Temperature	130°C	130°C	130°C
Maximum Operating Pressure (psi)	130	130	130
Applicable pH value	1-14	1-14	1-14

### Order Information:

**Nonsterile with a Female Luer-Lok inlet and Male Luer slip outlets.**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PT022013	PTFE	0.22	13	100	36.49	29.19
PT022025			25	100	60.81	48.65
PT022033			33	100	74.32	59.46
PT045013		0.45	13	100	36.49	29.19
PT045025			25	100	60.81	48.65
PT045033			33	100	74.32	59.46

**Sterile, individually wrapped, with a Female Luer-Lok inlet and Male Luer slip outlets**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
PT122013	PTFE	0.22	13	100	67.57	54.05
PT122025			25	100	105.41	84.32
PT122033			33	100	108.11	86.49
PT145013		0.45	13	100	67.57	54.05
PT145025			25	100	105.41	84.32
PT145033			33	100	108.11	86.49

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## MS<sup>®</sup> MCE Syringe Filter

### Picture:



### Product Description:

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**MCE** (Mixed Cellulose Ester)-filtration of aqueous solutions; effectively binds trace proteins.

### Features and Benefits:

- Uniform aperture
- No medium dropping
- Thin texture
- Little resistance
- High filtration speed
- Little absorption
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up to 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, DNase-free,
- Non-pyrogenic, and DNA-free.

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### Technical Specification:

Parameters	13mm	25mm	33mm
Membrane material	MCE	MCE	MCE
Housing material	PP	PP	PP
Filter diameter (mm)	13mm	25mm	33mm
Filtration area (cm <sup>2</sup> )	0.65	3.90	4.60
Pore Size(μm)	0.22   0.45	0.22   0.45	0.22   0.45
Holdup volume (μl)	<10	<30	<55
Sample volume (ml)	<12	<100	<140
Maximum Operating Temperature	110°C	110°C	110°C
Maximum Operating Pressure (psi)	120	120	120
Applicable pH value	4-8	4-8	4-8

### Application:

- Gas particulate and bacteria filtration and then inspect them
- Oil particulate and bacteria filtration and then inspect them
- Alcohol particulate and bacteria filtration and then inspect them
- Other solvent particulate and bacteria filtration and then inspect them

### Order Information:

#### Nonsterile with a Female Luer-Lok inlet and Male Luer slip outlets.

Item Number	Membrane Material	Filter Pore Size(μm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
MC022013	MCE	0.22	13	100	16.22	12.97
MC022025			25	100	29.73	23.78
MC022033			33	100	37.84	30.27
MC045013		0.45	13	100	16.22	12.97
MC045025			25	100	29.73	23.78
MC045033			33	100	37.84	30.27

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**Sterile, individually wrapped, with a Female Luer-Lok inlet and Male Luer slip outlets**

Item Number	Membrane Material	Filter Pore Size(μm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
MC122013	MCE	0.22	13	100	67.57	54.05
MC122025			25	100	105.41	84.32
MC122033			33	100	108.11	86.49
MC145013		0.45	13	100	67.57	54.05
MC145025			25	100	105.41	84.32
MC145033			33	100	108.11	86.49

## MS<sup>®</sup> Nylon Syringe Filter

Picture:



### Product Description:

MS<sup>®</sup> Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

**Nylon**-providing a board range of chemical compatibility for the filtration of either aqueous or organic solvents; hydrophobic; can be used in a board pH range.

### Features and Benefits:

- Hydrophilic property
- No need to moist beforehand
- Uniform aperture
- Strong tenacity and adsorbability

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- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up to 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, Dnase- free,
- Non-pyrogenic, and DNA –free.

### Technical Specification:

Parameters	13mm		25mm		33mm	
Membrane material	Nylon		Nylon		Nylon	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	100°C		100°C		100°C	
Maximum Operating Pressure (psi)	75		95		110	
Applicable pH value	3-12		3-12		3-12	

### Application:

- Electric semiconductor industrial water filtration
- Chemicals filtration
- Beverage filtration

**Order Information:**

**Nonsterile with a Female Luer-Lok inlet and Male Luer slip outlets.**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
NY022013	Nylon	0.22	13	100	16.22	12.97
NY022025			25	100	29.73	23.78
NY022033			33	100	37.84	30.27
NY045013		0.45	13	100	16.22	12.97
NY045025			25	100	29.73	23.78
NY045033			33	100	37.84	30.27

**Sterile, individually wrapped, with a Female Luer-Lok inlet and Male Luer slip outlets**

Item Number	Membrane Material	Filter Pore Size(µm)	Housing Diameter(mm)	Qty per Box	List Price (\$)	Distributor Price (\$)
NY122013	Nylon	0.22	13	100	67.57	54.05
NY122025			25	100	105.41	84.32
NY122033			33	100	108.11	86.49
NY145013		0.45	13	100	67.57	54.05
NY145025			25	100	105.41	84.32
NY145033			33	100	108.11	86.49