



FILTER TECHNOLOGY

SYRINGE AND SYRINGELESS FILTERS



The GVS Life Sciences Syringe Filters Family

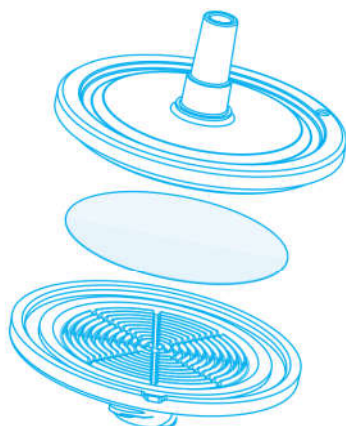
ABLU

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GVS Life Sciences offers a range of disposable syringe filter devices designed to provide fast and efficient filtration of aqueous and organic solutions. They are available in a wide variety of sizes and membranes, with a polypropylene or acrylic housing, for both sterile and non sterile laboratory applications.

Features and Benefits

- ◆ Lower hold-up volume - due to an improved flow channel design and reduced spacing between the supports within the housing, for better handling of small sample volumes or costly samples
- ◆ Increased operating pressure - up to 130 psi due to the over-mold that prevents sample leaking at the seam and keeps the filter unit from bursting in half
- ◆ Strict quality control - syringe filters are integrity tested to ensure a proper fit and weld to eliminate any potential filter by-pass
- ◆ Accurate labeling - each filter is labeled with the specific filter material and pore size for easy identification even if the syringe filter is not in its original packaging
- ◆ Multifunctional connectors - equipped with male luer-lock or male slip and female luer-lock connections
- ◆ Polypropylene or Acrylic housing
- ◆ Modified Acrylic housing to bidirectionally support the membrane allowing sample injection or aspiration
- ◆ Sterile or Non-Sterile options
- ◆ Bulk-packages or individual blisters
- ◆ Customized product and packaging on request
- ◆ Manufactured in the USA - GVS Life Sciences devices are manufactured in our ISO9001 certified plant in Sanford, Maine, USA, using proprietary microporous membranes from our plant in Westborough, Massachusetts, USA.



13 mm ABLUO Syringe Filters



Characteristics

Membrane Materials: Cellulose Acetate, Nitrocellulose, Nylon, PE, PES, PTFE, PVDF, Regenerated Cellulose

Membrane Diameter: 13 mm

Effective Filtration Area: 0.76 cm²

Housing Diameter: 18 mm

Housing Materials: Acrylic, Polypropylene, Ultrasonically welded

Inlet / Outlet: FLL / MLL-MLS

Holdup Volume: <50 microliter

Maximum Operating Temperature:

PP Abluo - 90°C / 194°F, Acrylic Abluo 50°C / 122°F

Maximum Operating Pressure: 80 psi

Sterile: No

Typical Applications

- Filtration of Aqueous, Organic and Alcohol Solutions
- Analytical Sample Preparation
- IC Chromatography
- Fuel Hydraulic Fluids and Machined Parts
- Clarification
- Protein Chemistry
- Cell Culture

Ordering information

Membrane Material	Pore Size (µm)	End Fitting	Housing Material	Color	Product Code	Cena rsd pak. 500 kom
					Packaging 500/pk	
Cellulose Acetate (CA)	0.22	FLL/MLL	Acrylic	Blue	FJ13ANCCA002DD01	
Cellulose Acetate (CA)	0.45	FLL/MLL	Acrylic	Yellow	FJ13ANCCA004FD01	
Cellulose Acetate (CA)	0.80	FLL/MLL	Acrylic	Green	FJ13ANCCA008ED01	
Cellulose Acetate (CA)	1.20	FLL/MLL	Acrylic	Red	FJ13ANCCA012CD01	
Cellulose Acetate (CA)	5.00	FLL/MLL	Acrylic	Brown	FJ13ANCCA050PD01	
Nylon (NY)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPNY002AD01	
Nylon (NY)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPNY004AD01	
Nitrocellulose Mixed Esters (MCE)	0.22	FLL/MLS	Acrylic	Transparent	FJ13BNCNC002AD01	
Nitrocellulose Mixed Esters (MCE)	0.45	FLL/MLS	Acrylic	Transparent	FJ13BNCNC004AD01	
Polyethersulfone (PES)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPPS002AD01	
Polyethersulfone (PES)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPPS004AD01	
Polytetrafluoroethylene Hydrophilic (PTFE HP)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPPH002AD01	
Polytetrafluoroethylene Hydrophilic (PTFE HP)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPPH004AD01	
Polyethylene (PE)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPPE002AD01	
Polyethylene (PE)	0.50	FLL/MLS	Polypropylene	Transparent	FJ13BNPPE005AD01	
Regenerated Cellulose (RC)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPRC002AD01	
Regenerated Cellulose (RC)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPRC004AD01	22.500,00
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPPV002AD01	
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPPV004AD01	
Polytetrafluoroethylene (PTFE)	0.22	FLL/MLS	Polypropylene	Transparent	FJ13BNPPT002AD01	18.000,00
Polytetrafluoroethylene (PTFE)	0.45	FLL/MLS	Polypropylene	Transparent	FJ13BNPPT004AD01	

17 mm CAMEO Syringe Filters



Characteristics

Membrane Materials: Cellulose Acetate, Nylon, Glass Fiber, PES, Polypropylene, PTFE, PVDF

Membrane Diameter: 17 mm

Effective Filtration Area: 1.4 cm²

Housing Diameter: 22 mm

Housing Material: Polypropylene Overmolded

Inlet / Outlet: FLL-MLS

Holdup Volume: <40 microliter

Maximum Operating Temperature: 82°C / 180°F

Maximum Operating Pressure: 80 psi

Sterile: No

Typical Applications

- ◆ Analytical Sample Preparation
- ◆ Dissolution testing
- ◆ Content uniformity
- ◆ Environmental samples
- ◆ Composite assays
- ◆ Food analysis
- ◆ Biofuel analysis

Ordering information

Membrane Material	Pore Size (µm)	End Fitting	Housing Material	Color	Product Code			
					Packaging 50/pk	Packaging 200/pk	Packaging 500/pk	Packaging 1000/pk
Cellulose Acetate (CA)	0.22	FLL/MLS	Polypropylene	Transparent	1225617	1225618	1225619	1233871
Cellulose Acetate (CA)	0.45	FLL/MLS	Polypropylene	Transparent	1225620	1225622	1225623	1233882
Nylon (NY)	0.22	FLL/MLS	Polypropylene	Transparent	1224746	1224747	1224748	1229460
Nylon (NY)	0.45	FLL/MLS	Polypropylene	Transparent	1224753	1224754	1224755	1229462
Nylon (NY)	1.20	FLL/MLS	Polypropylene	Transparent	1224760	1224761		
Nylon (NY)	5.00	FLL/MLS	Polypropylene	Transparent	1224763	1224764	1224765	1229464
Polyethersulfone (PES)	0.22	FLL/MLS	Polypropylene	Transparent	1233547			1233544
Polyethersulfone (PES)	0.45	FLL/MLS	Polypropylene	Transparent	1233548			1233545
Polypropylene (PP)	0.22	FLL/MLS	Polypropylene	Transparent	1224808	1224809	1224810	1229452
Polypropylene (PP)	0.45	FLL/MLS	Polypropylene	Transparent	1224811	1224812	1224813	1229454
Polytetrafluoroethylene (PTFE)	0.22	FLL/MLS	Polypropylene	Transparent	1224780	1224781	1224782	1229447
Polytetrafluoroethylene (PTFE)	0.45	FLL/MLS	Polypropylene	Transparent	1224787	1224788	1224789	1229449
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Polypropylene	Transparent				3049952
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Polypropylene	Transparent	3023135			3023187
Glass Fiber/Nylon (GF/NY)	0.22	FLL/MLS	Polypropylene	Transparent	1224766	1224767	1224768	1229477
Glass Fiber/Nylon (GF/NY)	0.45	FLL/MLS	Polypropylene	Transparent	1224773	1224774	1224775	1229479
Glass Fiber/Polypropylene (GF/PP)	0.22	FLL/MLS	Polypropylene	Transparent	1224814	1224815		1229473
Glass Fiber/Polypropylene (GF/PP)	0.45	FLL/MLS	Polypropylene	Transparent	1224817	1224818		1229475
Glass Fiber/PTFE	0.22	FLL/MLS	Polypropylene	Transparent	1224794	1224795	1224796	1229469
Glass Fiber/PTFE	0.45	FLL/MLS	Polypropylene	Transparent	1224801	1224802	1224803	1229471

33 mm ABLUO Syringe Filters



Characteristics

Membrane Materials: Cellulose Acetate, Glass Fiber, Nitrocellulose, Nylon, PES, Polyethylene, PTFE, PVDF, Regenerated Cellulose
 Housing Diameter: 33 mm
 Membrane Diameter: 25 mm
 Effective Filtration Area: 4.6 cm²
 Housing Materials: Acrylic, Polypropylene Ultrasonically welded
 Inlet / Outlet: FLL / MLL-MLS
 Holdup Volume: <100 microliter
 Maximum Operating Temperature:
 PP Abluo - 90°C / 194°F, Acrylic Abluo 50°C / 122°F
 Maximum Operating Pressure: 80 psi
 Sterile: No

Typical Applications

- Analytical sample preparation
- Biological fluids
- Buffer solutions
- Sterile filtering of tissue culture media
- Protein aqueous solutions
- Biofuel analysis
- HPLC sample preparation
- Pesticide testing
- Cannabis potency testing
- Neutraceutical sample preparation

Ordering information

Membrane Material	Pore Size (µm)	End Fitting	Housing Material	Color	Product Code	Cena rsd pak. 500 kom
					Packaging 500/pk	
Cellulose Acetate (CA)	0.22	FLL/MLL	Acrylic	Blue	FJ25ANCCA002DD01	18.200,00
Cellulose Acetate (CA)	0.45	FLL/MLL	Acrylic	Yellow	FJ25ANCCA004FD01	
Cellulose Acetate (CA)	0.80	FLL/MLL	Acrylic	Green	FJ25ANCCA008ED01	
Cellulose Acetate (CA)	1.20	FLL/MLL	Acrylic	Red	FJ25ANCCA012CD01	
Cellulose Acetate (CA)	5.00	FLL/MLL	Acrylic	Brown	FJ25ANCCA050PD01	
Nylon (NY)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPNY002AD01	16.200,00
Nylon (NY)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPNY004AD01	
Polyethersulfone (PES)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPS002AD01	26.000,00
Polyethersulfone (PES)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPPS004AD01	
Polyethersulfone Asymmetric (PES)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPX002AD01	
Nitrocellulose Mixed Esters (MCE)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BNCNC002AD01	
Nitrocellulose Mixed Esters (MCE)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BNCNC004AD01	18.200,00
Regenerated Cellulose (RC)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPRC002AD01	
Regenerated Cellulose (RC)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPRC004AD01	18.200,00
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPV002AD01	
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPPV004AD01	18.200,00
Polytetrafluoroethylene (PTFE)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPT002AD01	
Polytetrafluoroethylene (PTFE)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPPT004AD01	18.200,00
Polytetrafluoroethylene Hydrophilic (PTFE HP)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPH002AD01	
Polytetrafluoroethylene Hydrophilic (PTFE HP)	0.45	FLL/MLS	Polypropylene	Transparent	FJ25BNPPH004AD01	18.200,00
Polyethylene (PE)	0.22	FLL/MLS	Polypropylene	Transparent	FJ25BNPPE002AD01	
Polyethylene (PE)	0.50	FLL/MLS	Polypropylene	Transparent	FJ25BNPPE005AD01	18.200,00
Glass Fiber (GF)	0.70	FLL/MLS	Polypropylene	Transparent	FJ25BNPGF007AD01	
Glass Fiber (GF)	1.00	FLL/MLS	Polypropylene	Transparent	FJ25BNPGF010AD01	18.200,00
Glass Fiber (GF)	1.20	FLL/MLS	Polypropylene	Transparent	FJ25BNPGF012AD01	
Glass Fiber (GF)	3.10	FLL/MLS	Polypropylene	Transparent	FJ25BNPGF031AD01	18.200,00
Glass Fiber (GF)	3.10	FLL/MLS	Polypropylene	Transparent	FJ25BNPGF031AD01	

33 mm CAMEO PLUS Syringe Filters



Characteristics

Membrane Material: Cellulose Acetate, Glass Fiber, Nylon, PES, Polypropylene, PTFE, PVDF

Housing Diameter: 33 mm

Membrane Diameter: 30 mm

Effective Filtration Area: 4.8 cm²

Housing Material: Polypropylene Overmolded

Inlet / Outlet: FLL-MLS

Holdup Volume: <100 microliter

Maximum Operating Temperature: 82°C / 180°F

Maximum Operating Pressure: 80 psi

Sterile: No

Typical Applications

- ◆ Analytical sample preparation
- ◆ Dissolution testing
- ◆ Content uniformity
- ◆ Environmental samples
- ◆ Composite assays
- ◆ Food analysis
- ◆ Biofuel analysis

Ordering information

Membrane Material	Pore Size (µm)	End Fitting	Housing Material	Color	Product Code			
					Packaging 50/pk	Packaging 200/pk	Packaging 500/pk	Packaging 1000/pk
Cellulose Acetate (CA)	0.22	FLL/MLS	Polypropylene	Transparent	1213641	1213192	1214014	1229443
Cellulos e Acetate (CA)	0.45	FLL/MLS	Polypropylene	Transparent	1214778	1214932	1214966	1229444
Cellulose Acetate (CA)	0.80	FLL/MLS	Polypropylene	Transparent	1226939	1226941	1226940	1229445
Cameo Glass Fiber (GF)	1.00	FLL/MLS	Polypropylene	Transparent	1227204		1227205	1229451
Cameo Glass Fiber (GF)	0.70	FLL/MLS	Polypropylene	Transparent	1227207			1227208
Nylon (NY)	0.10	FLL/MLS	Polypropylene	Transparent	1224100	1224101	1224103	1229459
Nylon (NY)	0.22	FLL/MLS	Polypropylene	Transparent	1224104	1224105	1224106	1229461
Nylon (NY)	0.45	FLL/MLS	Polypropylene	Transparent	1224112	1224113	1224114	1226917
Nylon (NY)	1.20	FLL/MLS	Polypropylene	Transparent	1224119	1224120	1224121	1229463
Nylon (NY)	5.00	FLL/MLS	Polypropylene	Transparent	1224124	1224125	1224126	1229465
Polyethersulfone (PES)	0.22	FLL/MLS	Polypropylene	Transparent	1233549			1233541
Polyethersulfone (PES)	0.45	FLL/MLS	Polypropylene	Transparent	1233550		1233551	1233543
Polypropylene (PP)	0.22	FLL/MLS	Polypropylene	Transparent	1224172	1224173	1224174	1229453
Polypropylene (PP)	0.45	FLL/MLS	Polypropylene	Transparent	1224310	1224311	1224312	1229458
Polytetrafluoroethylene (PTFE)	0.22	FLL/MLS	Polypropylene	Transparent	1224143	1224144	1224145	1229448
Polytetrafluoroethylene (PTFE)	0.45	FLL/MLS	Polypropylene	Transparent	1224150	1224151	1237721	1229450
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Polypropylene	Transparent	3038551			3038552
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Polypropylene	Transparent	3020528		3020351	3023084
Glass Fiber/Cellulose Acetate	0.22	FLL/MLS	Polypropylene	Transparent	1226942	1226944	1226943	1229466
Glass Fiber/Cellulose Acetate	0.45	FLL/MLS	Polypropylene	Transparent	1226945	1226947	1226946	1229467
Glass Fiber/Cellulose Acetate	0.80	FLL/MLS	Polypropylene	Transparent		1226951	1226950	
Glass Fiber/Nylon	0.10	FLL/MLS	Polypropylene	Transparent				1229480
Glass Fiber/Nylon	0.22	FLL/MLS	Polypropylene	Transparent	1224127	1224128	1224129	1229478
Glass Fiber/Nylon	0.45	FLL/MLS	Polypropylene	Transparent	1224135	1224136	1224137	1226916
Glass Fiber/Polyethersulfone	0.45	FLL/MLS	Polypropylene	Transparent	3050121		3050122	
Glass Fiber/Polypropylene	0.22	FLL/MLS	Polypropylene	Transparent	1224175	1224176	1224177	1229474
Glass Fiber/Polypropylene	0.45	FLL/MLS	Polypropylene	Transparent	1224313	1224314	1224315	1229476
Glass Fiber/PTFE	0.22	FLL/MLS	Polypropylene	Transparent	1224157	1224158	1224159	1229470
Glass Fiber/PTFE	0.45	FLL/MLS	Polypropylene	Transparent	1224164	1224165	1224166	1229472

13 mm STERILE ABLUO Syringe Filters



Characteristics

Membrane Materials: Cellulose Acetate, PES, PVDF
Housing Diameter: 18 mm
Membrane Diameter: 13 mm
Effective Filtration Area: 0.76 cm²
Housing Material: Acrylic Ultrasonically welded
Inlet / Outlet: FLL / MLL-MLS
Holdup Volume: <50 microliter
Maximum Operating Temperature: 50°C / 122°F
Maximum Operating Pressure: 80 psi
Sterile: Yes

Typical Applications

- ◆ Filtration of Aqueous Solutions
- ◆ Analytical Sample Preparation
- ◆ IC Chromatography
- ◆ Sterile Filtration and Clarification
- ◆ Protein Chemistry
- ◆ Cell Culture
- ◆ Clarification

Ordering information

Membrane Material	Pore Size (μm)	End Fitting	Housing Material	Color	Product Code
					Packaging 50/pk
Cellulose Acetate (CA)	0.22	FLL/MLL	Acrylic	Blue	FJ13ASCCA002DL01
Cellulose Acetate (CA)	0.45	FLL/MLL	Acrylic	Yellow	FJ13ASCCA004FL01
Cellulose Acetate (CA)	0.80	FLL/MLL	Acrylic	Green	FJ13ASCCA008EL01
Cellulose Acetate (CA)	1.20	FLL/MLL	Acrylic	Red	FJ13ASCCA012CL01
Cellulose Acetate (CA)	5.00	FLL/MLL	Acrylic	Brown	FJ13ASCCA050PL01
Polyethersulfone (PES)	0.22	FLL/MLS	Acrylic	Transparent	FJ13BSCPS002AL01
Polyethersulfone (PES)	0.45	FLL/MLS	Acrylic	Transparent	FJ13BSCPS004AL01
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Acrylic	Transparent	FJ13BSCPV002AL01
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Acrylic	Transparent	FJ13BSCPV004AL01

33 mm STERILE ABLUO Syringe Filters



Characteristics

Membrane Materials: Cellulose Acetate, Nylon, PES, PVDF
Housing Diameter: 33 mm
Membrane Diameter: 25 mm
Housing Material: Acrylic Ultrasonically welded
Effective Filtration Area: 4.6 cm²
Inlet / Outlet: FLL / MLL-MLS
Holdup Volume: <100 microliter
Maximum Operating Temperature: 50°C / 122°F
Maximum Operating Pressure: 80 psi
Sterile: Yes

Typical Applications

- ▲ Filtration of Aqueous and Alcohol Solutions
- ▲ Sterile Filtration and Clarification
- ▲ Cell Culture
- ▲ Analytical Sample Preparation
- ▲ IC Chromatography
- ▲ Clarification
- ▲ Protein Chemistry
- ▲ Filtration of Aqueous and Organic Solutions

Ordering information

Membrane Material	Pore Size (μm)	End Fitting	Housing Material	Color	Product Code
					Packaging 50/pk
Cellulose Acetate (CA)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BSCCA002AL01
Cellulose Acetate (CA)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BSCCA004AL01
Cellulose Acetate (CA)	0.80	FLL/MLS	Acrylic	Transparent	FJ25BSCCA008AL01
Cellulose Acetate (CA)	0.22	FLL/MLL	Acrylic	Blue	FJ25ASCCA002DL01
Cellulose Acetate (CA)	0.45	FLL/MLL	Acrylic	Yellow	FJ25ASCCA004FL01
Cellulose Acetate (CA)	0.80	FLL/MLL	Acrylic	Green	FJ25ASCCA008EL01
Cellulose Acetate (CA)	1.20	FLL/MLL	Acrylic	Red	FJ25ASCCA012CL01
Cellulose Acetate (CA)	5.00	FLL/MLL	Acrylic	Brown	FJ25ASCCA050PL01
Mixed Cellulose Ester (MCE)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BSCNC002AL01
Mixed Cellulose Ester (MCE)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BSCNC004AL01
Nylon (NY)	0.10	FLL/MLS	Acrylic	Transparent	FJ25BSCNY001AL01
Nylon (NY)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BSCNY002AL01
Nylon (NY)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BSNY0042AL01
Nylon (NY)	1.20	FLL/MLS	Acrylic	Transparent	FJ25BSCNY012AL01
Nylon (NY)	5.00	FLL/MLS	Acrylic	Transparent	FJ25BSCNY050AL01
Polyethersulfone (PES)	0.80	FLL/MLS	Acrylic	Transparent	FJ25BSCPS008AL01
Polyethersulfone (PES)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BSCPS002AL01
Polyethersulfone (PES)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BSCPS004AL01
Polyvinylidene Fluoride (PVDF)	0.22	FLL/MLS	Acrylic	Transparent	FJ25BSCPV002AL01
Polyvinylidene Fluoride (PVDF)	0.45	FLL/MLS	Acrylic	Transparent	FJ25BSCPV004AL01