

► Syringe Filter Application Guide

	Cat. No.		Application	Volume, mL	Prefilter/membrane/housing
	171-0020	Non-sterile bulk-packed	Cleaning of micro/immunological reagents, enzymes, antibodies	0.5-1	CA membrane, PP housing
	171-0045	Non-sterile bulk-packed	Prefiltration of micro/immunological reagents	0.5-1	CA membrane, PP housing
	176-0020	Non-sterile bulk-packed	Cleaning of aqueous solutions, HPLC solvents, alcohols and DMSO	0.5-1	Nylon membrane, PP housing
	176-0045	Non-sterile bulk-packed	Prefiltration and clarification of aqueous solutions, HPLC solvents, alcohols and DMSO	0.5-1	Nylon membrane, PP housing
S	180-1320	Sterile, individually blister-packed	Sterilization of microbial media, proteinaceous solutions and tissue culture reagents	2-10	PES membrane, Modified acrylic housing
	187-1320	Non-sterile bulk-packed; autoclavable	Cleaning of organic solvents and alcohols; venting of air, gases	2-10	PTFE membrane, PP housing
	187-1345	Non-sterile bulk-packed; autoclavable	Prefiltration and clarification of organic solvents and alcohols; venting of air, gases	2-10	PTFE membrane, PP housing
	189-2000	Non-sterile bulk-packed	Prefiltration and clarification of highly viscous solutions, removal of large particulates from suspensions	N/A	Glass-Fiber prefilter, Modified acrylic housing
S	190-2520	Sterile, individually blister-packed	Sterilization of microbial media, proteinaceous solutions and tissue culture reagents	10-100	SFCA membrane, Modified acrylic housing
S	190-2545	Sterile, individually blister-packed	Prefiltration/clarification of aqueous solutions/alcohols, prefiltration of serum and other proteinaceous samples	10-100	SFCA membrane, Modified acrylic housing
S	190-2580	Sterile, individually blister-packed	Prefiltration, serial filtration and clarification of aqueous solutions, serum and alcohols; Removal of cell residues	10-100	CA membrane, Modified acrylic housing
	191-2020	Non-sterile bulk-packed	Cleaning of aqueous and proteinaceous solutions and alcohols	10-100	SFCA membrane, Modified acrylic housing
	191-2045	Non-sterile bulk-packed	Prefiltration/clarification of aqueous solutions/alcohols, prefiltration of serum and other proteinaceous samples	10-100	SFCA membrane, Modified acrylic housing
	191-2080	Non-sterile bulk-packed	Prefiltration, serial filtration and clarification of aqueous solutions, serum and alcohols; Removal of cell residues	10-50	CA membrane, Modified acrylic housing
S	192-2520	Sterile, individually blister-packed	Two-stage filtration (prefilter/membrane) for sterilization of highly viscous solutions and/or with high particle loads	10-200	Glass-fiber pre-filter, CA membrane, Modified acrylic housing
S	194-2520	Sterile, individually blister-packed	Sterilization of microbial media, proteinaceous solutions and tissue culture reagents	10-100	PES membrane, Modified acrylic housing
S	194-2545	Sterile, individually blister-packed	Sterilization of microbial media, proteinaceous solutions and tissue culture reagents	10-100	PES membrane, Modified acrylic housing
S	195-2520	Sterile, individually blister-packed	Sterilization of tissue culture media, cleaning of aqueous solutions, HPLC solvents, alcohols and DMSO	10-100	Nylon membrane, PP housing
S	195-2545	Sterile, individually blister-packed	Prefiltration and clarification of aqueous solutions, HPLC solvents, alcohols and DMSO	10-100	Nylon membrane, PP housing
	196-2020	Non-sterile bulk-packed; autoclavable	Cleaning of aqueous solutions, HPLC solvents, alcohols and DMSO	10-100	Nylon membrane, PP housing
	196-2045	Non-sterile bulk-packed; autoclavable	Prefiltration and clarification of aqueous solutions, HPLC solvents, alcohols and DMSO	10-50	Nylon membrane, PP housing
	199-2020	Non-sterile bulk-packed; autoclavable	Cleaning of organic solvents and alcohols, venting of air and other gases	10-100	Teflon® PTFE membrane, PP housing
	199-2045	Non-sterile bulk-packed; autoclavable	Prefiltration and clarification of organic solvents and alcohols, venting of air and gases	10-100	Teflon® PTFE membrane, PP housing
	DS0222-0020	Non-sterile bulk-packed; autoclavable	Cleaning of organic solvents and alcohols, venting of air and other gases	0.2-5 L	PTFE membrane, PP housing
	DS0222-0045	Non-sterile bulk-packed; autoclavable	Prefiltration and clarification of organic solvents and alcohols, venting of air and gases	0.2-5 L	PTFE membrane, PP housing

S Indicates sterile product † at 45 psig/3.1 bar with water †† at 15 psig/1.0 bar with methanol * Isopropanol § Air at 1.4 psig/0.1 bar

Teflon® is a registered trademark of DuPont used under license by Nalge Nunc International Corp.

Syringe Filter Application Guide, continued

Cat. No.	Pore size, μm	Memb. dia., mm	Filter area	Housing burst pressure (psig/bar)	Bubble Point (psig/bar)	Hold Up Vol., after air purge	Nom. Flow Rate, water at 14.7/1 psig/bar (mL/min.)
171-0020	0.2 μm	4	7 mm ²	75/5.1	45/3.1	10 μL	3
171-0045	0.45 μm	4	7 mm ²	75/5.1	28/1.9	10 μL	10
176-0020	0.2 μm	4	7 mm ²	75/5.1	40/2.7	10 μL	1
176-0045	0.45 μm	4	7 mm ²	75/5.1	29/1.9	10 μL	3
180-1320	0.2 μm	13	0.8 cm ²	75/5.1	35/2.4	20 μL	22 [†]
187-1320	0.2 μm	13	0.8 cm ²	100/7.1	13/0.9	30 μL	15 ^{††}
187-1345	0.45 μm	13	0.8 cm ²	100/7.1	7/0.5	3 μL	28 ^{††}
189-2000	N/A	25	5.3 cm ²	75/5.1	N/A	N/A	N/A
190-2520	0.2 μm	25	5.3 cm ²	75/5.1	45/3.1	0.25 mL	70
190-9920							
190-2545	0.45 μm	25	5.3 cm ²	75/5.1	28/1.9	0.25 mL	180
190-9945							
190-2580	0.8 μm	25	5.3 cm ²	75/5.1	7/0.5	0.25 mL	300
191-2020	0.2 μm	25	5.3 cm ²	75/5.1	45/3.1	0.25 mL	70
191-2045	0.45 μm	25	5.3 cm ²	75/5.1	28/1.9	0.25 mL	180
191-2080	0.8 μm	25	5.3 cm ²	75/5.1	7/0.5	0.25 mL	300
192-2520	0.2 μm	25	5.3 cm ²	75/5.1	45/3.1	0.2 mL	90
194-2520	0.2 μm	25	5.3 cm ²	75/5.1	42/2.8	0.15 mL	175 [†]
194-2545	0.45 μm	25	5.3 cm ²	75/5.1	30/2.1	0.15 mL	300 [†]
195-2520	0.2 μm	25	2.8 cm ²	90/6.2	42/2.8	0.15 mL	70
195-2545	0.45 μm	25	2.8 cm ²	90/6.2	25/1.7	0.15 mL	95
196-2020	0.2 μm	25	2.8 cm ²	90/6.2	42/2.8	0.15 mL	35
196-2045	0.45 μm	25	2.8 cm ²	90/6.2	25/1.7	0.15 mL	95
199-2020	0.2 μm	25	2.8 cm ²	90/6.2	15/1.0*	0.25 mL	45*
199-2045	0.45 μm	25	2.8 cm ²	90/6.2	6/0.4*	0.25 mL	80*
DS0222-0020	0.2 μm	50	20 cm ²	60/4.1	13/0.9*	1.0 mL	5000 [§]
DS0222-0045	0.45 μm	50	20 cm ²	60/4.1	7/10.5*	1.0 mL	8500 [§]

S Indicates sterile product † at 45 psig/3.1 bar with water †† at 15 psig/1.0 bar with methanol * Isopropanol § Air at 1.4 psig/0.1 bar

Teflon® is a registered trademark of DuPont used under license by Nalge Nunc International Corp.