

Autovial Syringeless Filters

FILTRATION

Whatman™ Autovial™ Syringeless Filters replace syringe-coupled filtration devices with a single, convenient disposable unit. Consisting of a plunger and a graduated filter barrel with a choice of filtration media, Autovial speeds sample preparation — so you can get more work done in less time. Simply pour the sample directly into the filter barrel, insert the plunger, and compress the unit. The filter barrel has a support stand to protect the slip Luer outlet. Autovial Syringeless Filters are designed for filtration both into an autosampler and direct instrument injection, by connecting a needle to the slip Luer outlet.

Autovial is also well suited for filtration of hazardous samples since its self-contained design eliminates the risk of filter popoff. In addition, the design makes it convenient for handling within a fume hood.

Features and benefits

- **Single unit convenience saves time:** no assembly required — easier to load
- **Choice of filter media:** compatible with a wide range of sample types
- **Safer for hazardous samples:** self-contained device eliminates risk of filter pop-off
- **Built in air purge:** maximizes sample recovery
- **Sterile option:** available to maintain sample integrity
- **Innovative prefilter design:** for difficult-to-filter samples (Autovial 12 only)
- **Ease-of-use:** filter barrel stands for easy loading
- **Two sizes:** minimize sample wastage by choosing the appropriate size



Fig 1. Easy to use one hand operation

Applications

- Sample preparation
- Difficult-to-filter samples
- Quick filtration of samples



Fig 2. Autovial Syringeless Filters

Filtering media options

Sample type	Suitable media
Particulate laden liquids	Glass microfiber (GMF)
Aqueous/organic samples in 3 to 10 pH range	Nylon (NYL)
General filtration media/solvent based samples	Polypropylene (PP)
Chemically aggressive solutions	Polytetrafluoroethylene (PTFE)
Biological samples requiring low protein binding media	Polyethersulfone (PES) (without glass prefilter)
Aqueous/organic solvents — low non-specific protein binding media	Polyvinylidene fluoride (PVDF) (without glass prefilter)
Aqueous/organic solvents — high flow and loading capacity	Polypropylene depth (dp PP)

Technical specifications

	Autovial 5	Autovial 12
Housing	Polypropylene	Polypropylene
Filtration area	1.7 cm ²	3.0 cm ²
Capacity	5 mL	12 mL
Hold-up volume (after air purge)	30 µL	140 µL
Outlet connection	Male Luer slip	Male Luer slip
Autoclavable	121°C for 20 min	121°C for 20 min

Ordering information

Autovial 5 Syringeless Filters

Catalog number	Prefilter	Pore size (µm)	Media
Non-sterile (Pack size – 50/pack)			
AV115NPUNYL	None	0.45	NYL
AV115NPUAQU	None	0.45	PVDF
AV115NPUORG	None	0.45	PTFE
AV115UGMF	None	0.45	GMF

Autovial 12 Syringeless Filters

Catalog number	Prefilter	Pore size (µm)	Media
Sterile (Pack size – 40/pack)			
AV125SNAO		0.2	NYL
AV125SAQU		0.2	PVDF
AV125SORG	Glass	0.2	PTFE
Non-sterile (Pack size – 50/pack)			
AV125UCA	Glass	0.45	CA
AV125ENAO	Glass	0.2	NYL
AV125UNAO	Glass	0.45	NYL
AV125NPUSU	None	0.45	PES
AV125EAQU	Glass	0.2	PVDF
AV125UAQU	Glass	0.45	PVDF
AV125NPUAQU	None	0.45	PVDF
AV125EPP	PP	0.2	PP
AV125UPP	PP	0.45	PP
AV125EORG	Glass	0.2	PTFE
AV125UORG	Glass	0.45	PTFE
AV125UGMF	Glass	0.45*	GMF
Non-sterile (Pack size – 1000/pack)			
AV55UNAO	Glass	0.45	NYL
AV55UAQU	Glass	0.45	PVDF
AV55UORG	Glass	0.45	PTFE
AV55BGMF	Glass	1.0*	GF/B

*Particle retention rating.

A flexible solution to meet your needs



Pour sample into Autovial filter-barrel.



Insert plunger and compress — collect filtered sample in a suitable container (e.g., autosample vial).



Or fit a needle on the tip of the Autovial for direct injection into instrument.

Fig 3. Autovial Syringeless Filters demonstration

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