

# Autovial Syringeless Filters

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 pop-off. 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 <sup>2</sup> | 3.0 cm <sup>2</sup> |
| 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 mins   | 121°C for 20 min    |

## Ordering information

| Autovial 5 Syringeless Filters           | Prefilter | Pore size (µm) | Media |
|--|-----------|----------------|-------|
| Catalog number                           |           |                |       |
| <b>Non-sterile (Pack size – 50/pack)</b> |           |                |       |
| AV115NPUNYL                              | None      | 0.45           | NYL   |
| AV115NPUAQU                              | None      | 0.45           | PVDF  |
| AV115NPUORG                              | None      | 0.45           | PTFE  |
| AV115UGMF                                | None      | 0.45           | GMF   |

| Autovial 12 Syringeless Filters          | Prefilter | Pore size (µm) | Media |
|--|-----------|----------------|-------|
| Catalog number                           |           |                |       |
| <b>Sterile (Pack size – 40/pack)</b>     |           |                |       |
| AV125SNAO                                |           | 0.2            | NYL   |
| AV125SAQU                                |           | 0.2            | PVDF  |
| AV125SORG                                | Glass     | 0.2            | PTFE  |
| <b>Non-sterile (Pack size – 50/pack)</b> |           |                |       |
| AV125UCA                                 | Glass     | 0.45           | CA    |
| AV125ENAO                                | Glass     | 0.2            | NYL   |
| AV125UNAO                                | Glass     | 0.45           | NYL   |
| AV125NPUPSU                              | 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    |

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| Autovial 12 Syringeless Filters (continued)          | Prefilter | Pore size (µm) | Media |
|--|-----------|----------------|-------|
| Catalog number                                       |           |                |       |
| <b>Non-sterile (Pack size – 50/pack) (continued)</b> |           |                |       |
| AV125EORG  | Glass     | 0.2            | PTFE  |
| AV125UORG  | Glass     | 0.45           | PTFE  |
| AV125UGMF  | Glass     | 0.45*          | GMF   |
| <b>Non-sterile (Pack size – 1000/pack)</b>           |           |                |       |
| AV55UNAO   | Glass     | 0.45           | NYL   |
| AV525UAQU  | Glass     | 0.45           | PVDF  |
| AV525UORG  | Glass     | 0.45           | PTFE  |
| AV525BGMF  | Glass     | 1.0*           | GF/B  |

\*Particle retention rating.

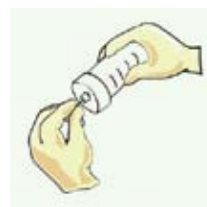
## A flexible solution to meet your needs



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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