

A simple guide to more reliable syringe filtration

Explore our step by step
syringe filter guide

Discover more



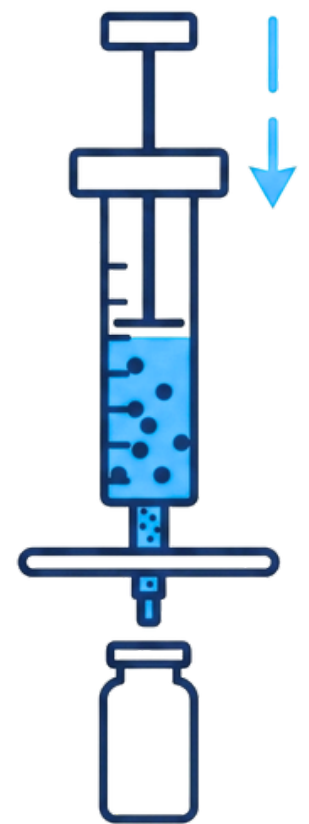
How to use the Van Borselen Filters Syringe Filters

Preparation

1. Remove the syringe filter from its packaging.
2. Inspect the syringe filter for visible damage. Do not use damaged or contaminated filters.
3. Verify that the syringe filter specifications (membrane type, pore size, diameter) are suitable for your application.
4. If sterile filtration is required, ensure the packaging is intact and unopened prior to use.

Connecting the Syringe Filter

5. Attach the syringe filter to a compatible syringe or tubing (The side including batch number, material and pore size is the inlet side of the syringe filter):
 - Luer Lock: screw the syringe filter securely onto the syringe.
 - Luer Slip: push the syringe filter firmly onto the syringe tip.
 - In case of other inlet/outlet, verify the correct connections.
6. Ensure the connection is tight to prevent leakage or bypass.
7. Check the flow direction:
 - The inlet is marked on the syringe filter housing with as the side including the batch number, material and pore size.
 - Liquid must flow from the syringe through the filter toward the outlet.



Filtration

8. Draw the liquid sample into the syringe.
9. Hold the syringe vertically with the filter outlet pointing downward.
10. Apply steady and gentle pressure to the syringe plunger to start filtration.
11. Do not exceed the recommended operating pressure of the syringe filter.
12. If flow resistance increases significantly:
 - Stop filtration.
 - Replace the syringe filter with a new one.
13. Collect the filtered liquid in a suitable sterile or clean container.



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After use

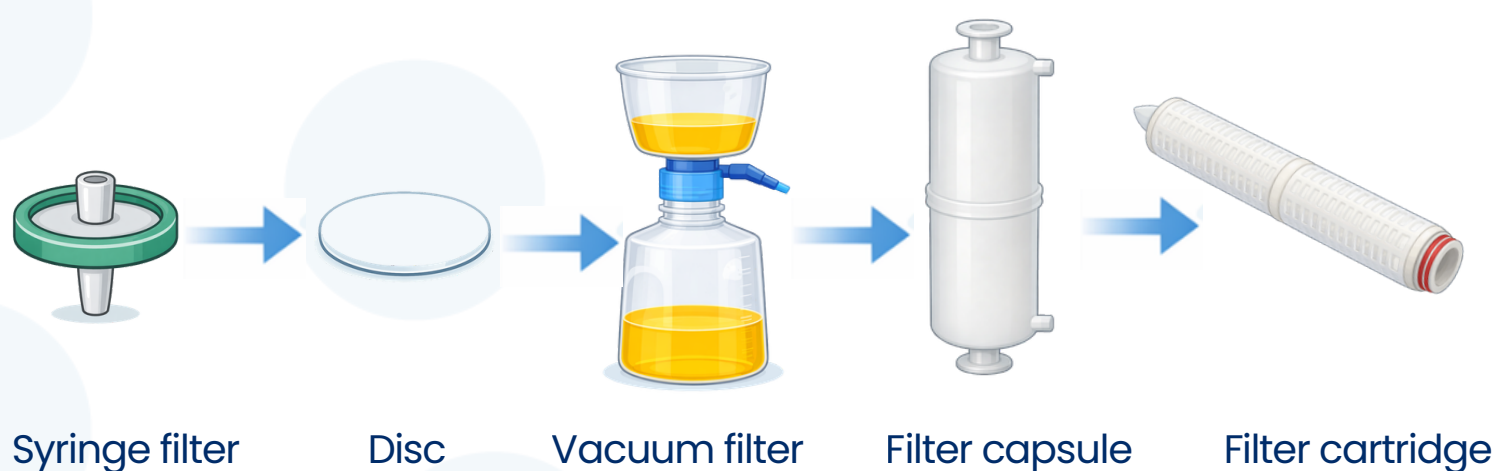
14. Once filtration is complete, stop applying pressure.
15. Disconnect the syringe filter from the syringe carefully.
16. Discard the syringe filter after use. It's advised that syringe filters are single-use only and must not be reuse.

Important notes

- ✓ Always verify the correct flow direction before filtration.
- ✓ Do not exceed the maximum operating pressure or temperature specified for the membrane material.
- ✓ Excessive pressure may cause filter rupture, leakage, or loss of retention.
- ✓ Pre-filtration is recommended for highly viscous or particle-loaded samples to extend filter life.
- ✓ Use only compatible syringes and collection containers.



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