

## Advice and Accessories for Minisarts

**Small volume** filtration can be simply accomplished by drawing the liquid to be filtered into a syringe, fitting a Minisart filtration unit or a re-usable syringe filter holder with appropriate filter onto the filled syringe and filtering the liquid by depressing the plunger. 3-Ring syringes allow a good grip and are re-usable. Disposable syringes avoid the necessity of cleaning. Both are supplied with needles which can be fitted onto the filter holder outlet, to allow silicone caps or rubber bungs to be pierced. Forceps should be used to handle membrane filters when positioning them in re-usable filter holders.



**Larger volumes** of relatively easily filterable liquids can also be filtered through syringe filtration units, but require refilling of the syringe. The need for repeated removal and replacement of the filtration unit can be avoided by inserting a 3-way valve between the filtration unit and the syringe. The sinker on the end of the suction tubing is dropped into the liquid to be filtered. The syringe plunger is drawn back to suck liquid into the syringe and depressed to push the liquid through the filter. This process is repeated until all of the liquid has been filtered.

**The filtration of larger volumes with simultaneous dosing** can be optimally achieved using a Dosing Syringe. The volume required is set by turning the base of the grip and is clearly visible in a window on the grip. The sinker at the end of the suction tubing is dropped into the liquid to be filtered and the syringe filled by operating the trigger a few times. A Minisart filtration unit or a re-usable syringe filter holder with appropriate filter is fitted onto the syringe. Only normal hand pressure is required, due to the convenient pistol-grip and the effective long-lever action of the trigger.



## Dosing Syringe

This is supplied with connectors for plastic and stainless steel syringe filter units. It allows simultaneous filtration and dosing. The smallest dose volume is 0.5ml, the largest 5.0ml. Volumes between these limits can be chosen in 0.5 ml steps. The plastic parts are made of Ryton polyphenyl sulphide, which has good thermal stability and chemical compatibility. The syringe can be autoclaved at 121°C, but the dosing accuracy may deteriorate when repeatedly autoclaved.

**S140** Dosing syringe 0.5 - 5ml  
Replacement parts available - please ask



## 3-Way Valve

Allows continuous filtration to be carried out when the female Luer lock inlet is connected to a syringe and a syringe filter unit fitted onto the Luer outlet. Autoclavable at 121°C.

**S153** 3-Way valve

### Replacement parts:

**S153/1** Sealing ring (4x)  
**S153/2** Pressure spring (2x)  
**S153/4** Perbunan valve

