

Minisart® 0.2 µm Syringe Filter Holders for Rapid Small Volume Sterilization with Maximum User Convenience



Ready-to-use units, which offer high flow rates at low inlet pressures, make correspondingly rapid sterile filtration possible. Fitted on a standard syringe, they enable a less manually tiresome sterilization of up to 100 ml of liquid. A Minisart fitted on a standard dosing syringe comprises a very convenient system for simultaneous dosage and sterilization.

The combination of a large filtration area and an optimized geometry of the filter support, which are responsible for the high flow rates, also ensures high total throughputs.

Minisart plus units are advantageous for the sterilization of difficult to filter liquids. They include a fine glass fiber prefilter on the filter membrane, a combination which is so effective that throughputs can often be doubled. Minisarts and their packaging are environmentally friendly, free of PVC!

Minisart High Flow are syringe filter holders with a polyethersulfone membrane for the sterile filtration at higher flow rates and a higher filtration speed.

Specifications for 0.2 µm Minisarts and Minisart plus

Adsorption	Values determined for the cellulose acetate membrane, 0.8–3 µg/cm ² with RSA, 8–12 µg/cm ² with gamma globulin.
Bubble point	Min. value with water 3.2 bar (320 kPa, 46 psi)
Color coding	Blue
Connectors	Female luer lock inlet, male luer lock outlet. Alternatively only for standard Minisarts male luer slip outlet.
Cytotoxicity	No inhibition with MRC-5 or L-929 cells
Endotoxins	Endotoxin-output below the detection limit of the tests (0.06 EU/ml)
Filter diameter	26 mm
Filter area	5.3 cm ²
Flow rate	Typical values for water at p = 1 bar (100 kPa, 14.5 psi) 60 ml/min
Hold-up volume	0.1 ml for standard Minisarts, 0.23 ml for Minisart plus
Application	Max. recommended operational pressure: 4.5 bar (450 kPa, 65 psi) limits housing burst pressure, 6 bar (600 kPa, 87 psi) and higher Max. temperature, 50°C
Materials	Cellulose acetate membrane filters, glass fiber prefilters (only for Minisart plus), MBS polymerisate

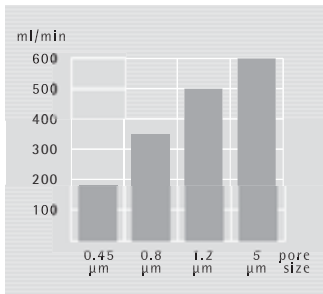
Order numbers for 0.2 µm Minisart

Pack of 50, sterile, individually packed	16534 K with luer lock outlet 17597 K with male luer slip outlet
Pack of 500, non-sterile bulk packed	16534 Q with luer lock outlet 17597 Q with male luer slip outlet

Order numbers for 0.2 µm Minisart plus

Pack of 50, sterile, individually packed	17823 K with luer lock outlet
Pack of 500, non-sterile bulk packed	17823 Q with luer lock outlet

Special brochure available. Order no. SL-0003-e



High Flow Rate Minisart® Syringe Filters for Particle Removal, Ultracleaning and Prefiltration

Ready-to-use filter units with 0.45 μm, 0.8 μm, 1.2 μm or 5 μm pore size membrane filters. These independent filters fulfill your filtration requirements whenever volumes of up to 100 ml must be clarified or ultracleaned. They can also be used as prefilter in combination with a 0.2 μm Minisart, increasing the total filterable volume.

The high flow rates of these units result from the large filter area and the very low flow resistance of the filter support, which is demonstrated by the relative constant increase in the flow rate with increasing pore size.

These flow rates contribute to user convenience by lowering the pressure required for filtration. Minisart GF contains a glass fiber filter with a retention efficiency of 98% for 0.7 μm spherical particles. It is very useful when relatively dirty solutions are to be clarified, or when a prefilter is needed on an 0.2 μm or 0.45 μm Minisart. Minisart plus units also contain this glass fiber filter, but as a prefilter on a 0.45 μm or 1.2 μm membrane, for higher total throughputs.

Order numbers for Minisart high flow

0.1 μm, pack of 50, sterile, individually packed	16553 K with luer lock outlet
0.2 μm, pack of 50, sterile, individually packed	16532 K with luer lock outlet 16541 K with luer slip outlet
0.45 μm, pack of 50, sterile, individually packed	16537 K with luer lock outlet 16533 K with luer slip outlet

Order numbers for standard 0.45 μm to 5 μm Minisarts

Pack of 50, sterile, individually packed	17598 K	0.45 μm Minisart with male luer slip outlet
	16555 K	0.45 μm Minisart with luer lock outlet
	16592 K	0.8 μm Minisart with luer lock outlet
	17593 K	1.2 μm Minisart with luer lock outlet
	17594 K	5 μm Minisart with luer lock outlet
Pack of 500, non-sterile bulk packed	17598 Q	0.45 μm Minisart with male luer slip outlet
	16555 Q	0.45 μm Minisart with luer lock outlet
	16592 Q	0.8 μm Minisart with luer lock outlet
	17593 Q	1.2 μm Minisart with luer lock outlet
	17594 Q	5 μm Minisart with luer lock outlet

Order numbers for Minisart plus units

Pack of 50, sterile, individually packed	17829 K	0.45 μm with luer lock outlet
Pack of 500, non-sterile bulk packed	17829 Q	0.45 μm with luer lock outlet
	17825 Q	1.2 μm with luer lock outlet

Order numbers for Minisart GF units

Non-sterile bulk packed	17824 K	luer lock outlet, pack of 50
	17824 Q	luer lock outlet, pack of 500

Recommended accessories see page 41.