



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.



Specifications for Minisarts, Minisart plus and Minisart GF

Connectors	Female luer lock inlet, male luer lock outlet (the 0.45 µm unit is also available with a male luer slip outlet)
Application limits	Max. recommended operating pressure 4.5 bar (450 kPa, 65 psi).
Housing burst pressure	6 bar (600 kPa, 87 psi) and higher
Max. temperature	50°C
Bubble point	Min. value with water 2.0 bar (29 psi) (0.45 µm), 0.8 bar (12 psi) (0.8 µm), 0.7 bar (10 psi) (1.2 µm), 0.4 bar (6 psi) (5 µm), 0.5 bar (7 psi) (Minisart GF)
Flow rate	Typical values for water at $\Delta = 1$ bar (100 kPa, 14.5 psi), 160 ml/min (0.45 µm), 350 ml/min (0.8 µm), 400 ml/min (1.2 µm), 500 ml/min (5 µm), 450 ml/min (Minisart-GF)
Color coding	Yellow (0.45 µm), green (0.8 µm), red (1.2 µm), brown (5 µm), opaque (Minisart GF)
Filter diameter	26 mm
Filter area	5.3 cm ²
Materials	Cellulose acetate membrane (except Minisart GF). Glass fiber filter (Minisart GF and Minisart plus). MBS polymerisate).
Hold-up volume	0.1 ml
Cytotoxicity	Detectably no inhibition with MRC-5 (human lung cells)