

REGENERATED CELLULOSE SYRINGE FILTERS

High resistance in filtration and sterilisation of aqueous and organic samples in HPLC applications

- Incorporate a regenerated cellulose membrane fixed without adhesive to the polypropylene housing.
- Hydrophilic.
- Low protein adsorption.
- High flow rate.
- High total throughput.
- Low hold-up volumen.
- Resistant to almost all solvents and aqueous solutions in pH range 3-12.
- Filter diameter related to the volume to be filtered:
 - <1 ml – 4 mm
 - <5 ml – 15 mm
 - <100 ml – 25 mm
- Pore size of 0.20 µm and 0.45 µm
- Sterilization by autoclaving at 121 °C and ethylene oxide.

Technical specifications:

Material filter	Regenerated cellulose					
Material housing	Polypropylene					
Pore	0.2			0.45		
Diameter	4 mm	15 mm	25 mm	4 mm	15 mm	25 mm
Flow rate (1) ml/min	0.5	10	60	1.5	30	100
Flow rate (2) ml/min	1.5	55	160	3.0	105	325
Flow rate (3) ml/min	3.5	140	230	10	280	430
Bubble point (4) (bar)	2.0	2.0	2.0	3.4	3.4	3.4
Filter diameter (mm)	4	15	25	4	15	25
Housing Diameter (mm)	12	25	33	12	25	33
Filter area (cm ²)	0.07	1.7	4.8	0.07	1.7	4.8
Hold up volumen (before/after bubble point (ml))	-/ 0.005	0.15 / 0.03	0.3 / 0.1	-/ 0.005	0.15 / 0.03	0.3 / 0.1
Adsorption (for 0.2 µm)	<10 ug/cm ² with BSA					
Connectors	Female luer lock inlet Male luer slip outlet					
Max. operational pressure (bar)	4.5	4.5	4.5	4.5	4.5	4.5
Burst pressure (bar)	6	6	6	6	6	6
Max. temperature (°C)	121	121	121	121	121	121

- (1) Flow rate for water at $A_p = 1$ bar (100kPa, 14.5 psi)
- (2) Flow rate for methanol at $A_p = 1$ bar (100kPa, 14.5 psi)
- (3) Flow rate for hexane at $A_p = 1$ bar (100kPa, 14.5 psi)
- (4) Wetting fluid: Isopropyl alcohol

Applications:

- Filtration and clarification of small volumes. Fast and efficient cleaning.
- Filtration and clarification aqueous, organic solution and mixed solutions.
- Sterilisation and clarification of cell and protein solutions and biological fluids.
- HPLC: Filtering aqueous and organic solutions
- GC: Preparation of samples

Ordering information

Ø	pore		0.20 µm	0.45 µm
	Units			
4 mm	50		JCR020450	JCR045450
	100		JCR02015100	JCR04515100
15 mm	500		JCR02015500	JCR04515500
	100		JCR02025100	JCR04525100
25 mm	500		JCR02025500	JCR04525500