

Clarification Filter Series

Roheap® CSD Filter

High Dirt Holding Capacity

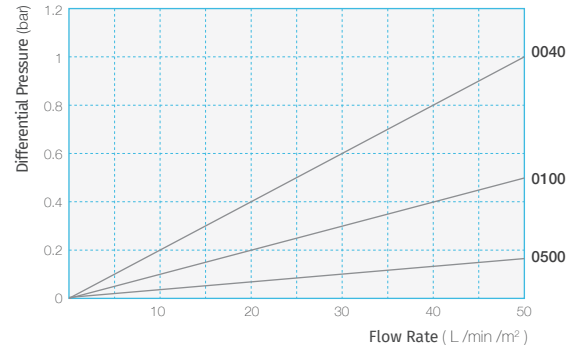


Features

- Filter media composed of lignocellulose and inorganic filter aids
- Gradient filter structure provides high dirt holding capacity and retention efficiency
- Low initial pressure difference and long service life
- Positive Zeta charge results in removal efficiency for host DNA, HCP, etc.

Applications

- Clarification of fermentation broth/cell cultures
- Filtration of blood and blood products
- Filtration of enzyme preparation
- Filtration of colloids/viscous liquids



Filter Material

Filter Media	Cellulose diatomite filter aid and ionic wet-strength resin
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Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.24 MPa
Rinse	Flushing volume 50L/m ² , Flow Rate 10L/min/m ²

Chemical Compatibility

Chemicals	Concentration	@20°C	@80°C
NaOH	2%	G	P
HCl	5%	G	P
HNO₃	5%	G	P
H₂SO₄	10%	G	P
Acetic acid	38%	G	G
Citric acid	10%	G	G
Peracetic acid	0.1%	G	G
Butanol	80%	G	G
Ethanol	80%	G	G

G = Recommended ; P = Not recommended

Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

Leachables

B Series	Ion	ppb	Ion	ppb	D Series	Ion	ppb	Ion	ppb
	Mg	0.73	Ni	-		Mg	0.755	Ni	-
	Al	5.33	Cu	0.162		Al	3.86	Cu	-
	Ca	5.65	As	0.987		Ca	1.48	As	-
	Cr	0.071	Pb	-		Cr	0.082	Pb	-
	Fe	13.1				Fe	3.28		

Explanation: - means < 0.05ppb

CSD Lenticular Filter Series

C S D	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	D O E	1 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	
Number of Layers	Removal Ratings	Control Grade	End Cap	Diameter	Number of Lenses	Seal Material		
CSD Single-Layer	0004 0.04-0.2µm 0020 0.2-0.4µm 0040 0.4-0.6µm 0060 0.6-0.8µm 0150 1.5-3.0µm 0300 3.0-6.0µm 0400 4.0-9.0µm 0500 5.0-12.0µm 0600 6.0-15.0µm 0700 7.0-18.0µm 0800 8.0-20.0µm	Pharma Grade Standard Grade	PB PC PD PE SA	DOE Double Open End	12 12 inch 16 16 inch	W 2 Y 3 G 4 B 5 N 9 X 10 Q 11 T 12 F 15 D 16	S Silicone E EPDM V Viton T Soft PTFE F Hard PTFE	P Pharmaceutical

C S D D	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	D O E	1 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	
Number of Layers	Removal Ratings	Control Grade	End Cap	Diameter	Number of Lenses	Seal Material		
CSDD Double-Layer	0102 0.04-0.4µm 0106 0.04-0.8µm 0140 0.04-9.0µm 0180 0.04-20.0µm 0280 0.2-20.0µm 0680 0.6-20.0µm 1080 0.8-20.0µm	Pharma Grade Standard Grade	PB PC PD PE SA	DOE Double Open End	12 12 inch 16 16 inch	W 2 Y 3 G 4 B 5 N 9 X 10 Q 11 T 12 F 15 D 16	S Silicone E EPDM V Viton T Soft PTFE F Hard PTFE	P Pharmaceutical

CDFC Capsule Filter Series

C D F C	S	C S D	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	P	
Filter Name	Number of Layers	Filter Media	Removal Ratings	Control Grade		
	S Single-Layer		0004 0.04-0.2µm 0020 0.2-0.4µm 0040 0.4-0.6µm 0060 0.6-0.8µm 0100 0.8-1.5µm 0150 1.5-3.0µm 0300 3.0-6.0µm 0400 4.0-9.0µm 0500 5.0-12.0µm 0600 6.0-15.0µm 0700 7.0-18.0µm 0800 8.0-20.0µm	Pharma Grade Standard Grade	PB PC PD PE SA	P Pharmaceutical

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