

BEVCLEAR® BW FILTER CARTRIDGES

BACKWASH POLYPROPYLENE MEDIA FILTERS WITH HIGH PARTICLE HOLDING CAPACITY AND FLOW RATES, RECOMMENDED FOR FILTRATION IN BREWING APPLICATIONS

BevClear® Filter Cartridges are constructed of nanofiber media with support layers that allow maximum backwash cleaning efficiency. Characterized by its high particle holding capacity and flow rates, these filters are recommended for filtration in brewing applications.

FEATURE	BENEFIT
Fine nanofiber media	Special design ensures backwash cleaning, increasing filter lifetime
	Super fine nanofiber media provides high particle holding capacity and retention efficiency
	Provides defined porosity with high filtration area
Particle Shedding	Autoclaved filter effluent meet the USP <788> for large volume injections.
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC].

SPECIFICATIONS

Filter media	Polypropylene (Super Fine Nanofiber)
Support	Polypropylene (Nanofiber)
Cage/Core/End Caps	Polypropylene
O-ring internal support	PBT, Stainless Steel
O-rings	Silicone, EPDM, FKM
Effective filtration area	0.6m ² (6.5 ft ²)/ Ø71-10 inch; 0.37m ² (4.0 ft ²)/ Ø64-10 inch
Cartridge diameter	71 mm (2.8 in.); 64 mm (2.5 in.)
Max. Operating temperature	80°C
Max. Differential pressure	Forward: 0.50 MPa (5.0 bar, 73 psi) at 21°C; 0.20 MPa (2.0 bar, 29 psi) at 80°C
	Reverse: 0.20 MPa (2.0 bar, 29 psi) at 21°C
Steam sterilization (saturated steam)	up to 20 cycles for 30 minutes at 121°C at Max. Differential Pressure of 0.5 bar (5.0 psi)
Hot water sterilization	up to 100 cycles at 85°C/30 min. at Max. Differential Pressure for 2 bar (29 psi)
Cleaning solution	2% NaOH Solution @ ≤65°C



Typical Applications

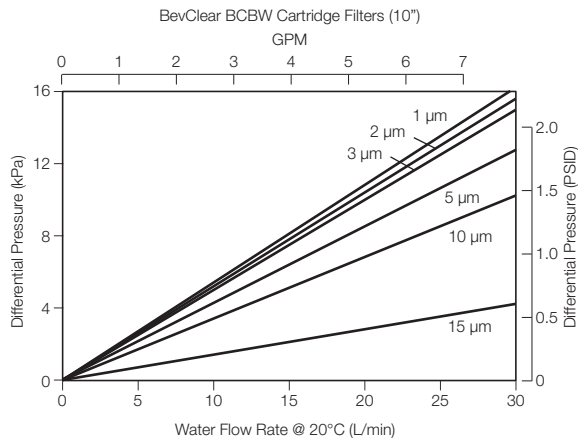
- Clarification
- Particle Removal
- Pasteurized Filtration
- Pre-Filtration
- Brewing
- Water

RECOMMENDED INSTRUCTIONS FOR REGENERATION AND STERILIZATION

The following steps should be performed after every filtration cycle:

Step	Action	Cleaning Agent	Flow Direction	Flow Rate	Duration
1.	Rinse	with clean, cold water.	Flow direction	normal	10 min.
2.	Backflush	with cold, clean water	Opposite direction	1.5 x normal	5-10 min.
3.	Rinse hot water	with clean, hot water @ 80°C	Flow direction	normal	5 min.
4.	Regenerate	with caustic solution that is free of particles (for example, 2% NaOH) @ 85°C	Flow direction	normal	15 min.
5.	Sanitize	with hot acidic water (for example, 0.4% HNO ₃) @ 80 - 85°C	Flow direction	normal	60 min.

FLOW RATES



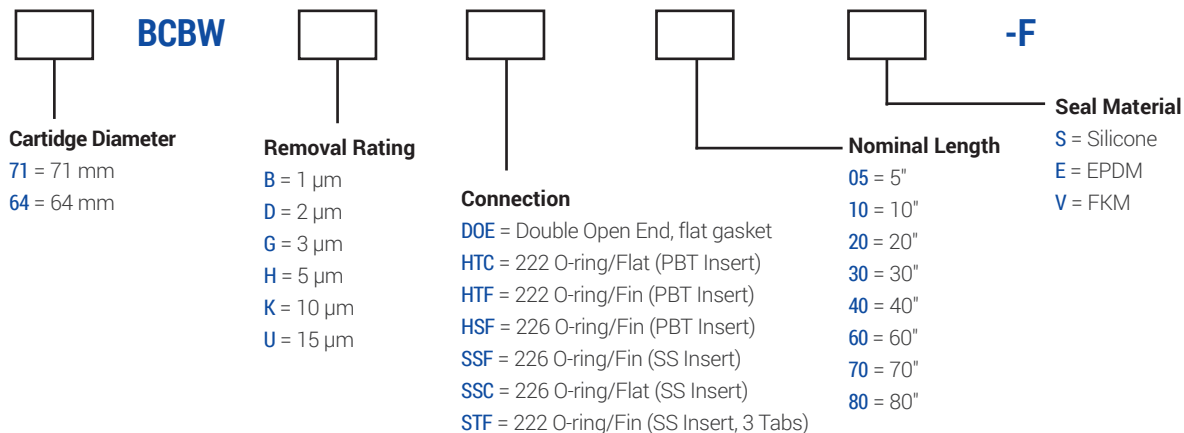
RETENTION

Micron rating at Specific Efficiencies & β Ratio

β Ratio	10000	5000	1000	100	20	10
Efficiency	>99.99%	99.98%	99.90%	99%	95%	90%
Micron Size						
B (1µm)	1.9	1.0	1.2	0.8	0.5	0.1
D(2µm)	2.2	2.0	1.9	1.2	0.9	0.5
G(3µm)	3.0	3.0	2.2	1.7	1.3	1.1
H(5µm)	5.0	5.0	3.4	2.7	2.0	1.7
K(10µm)	10	10	7.7	5.6	4.1	3.8

ORDERING INFORMATION

EXAMPLE: **71BCBWBD0E10-F** = 71 mm diameter, 1 µm, DOE, 10" filter with EPDM gaskets



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