

HC Series High Capacity Wound Filter Cartridges

Ask us about HC Series
filters certified to NSF/
ANSI 61!

HC “high capacity” series string wound filter cartridges provide excellent filtration for fluids with a wide particle size distribution. The HC series filters are wound with two zones in order to provide longer filter life with challenging fluids. A more open pre-filtration section serves to protect the downstream section and remove larger particles, while a tighter final filter section provides removal of smaller particulates. The rating of each zone is specified in order to provide a filter uniquely tailored to process requirements. Alert Sales offers these depth filters with a choice of filtration media, support cores, and materials to ensure process compatibility.



HC Series string wound filter cartridges provide longer life by virtue of their dual-zone construction.

Precision winding geometry provides consistent removal-efficiency. Ratings are available from 0.5µm to 200 µm. Optional core covers allow added contaminant removal assurance. Cartridges are available in continuous lengths from 4” to 72” and diameters to 4 ½”. End fitting options allow installation into most filter housings.

Benefits

- Wide range of materials to ensure process compatibility
- Variety of sizes and configurations to ensure proper sizing, fit and sealing
- High sediment-holding-capacity for longer time between filter cartridges changes
- Continuous lengths up to 72” (183cm)
- Technical support
- Prompt deliveries

Applications

- Potable water (NSF/ANSI 61 certified versions available)
- Process water
- Pre-filtration for membrane/ reverse osmosis (RO) systems
- Food and beverage
- Chemicals, acids, bases
- Oils, fuels and solvents
- Fracking, completion and brine fluids
- Produced water and waste water

Precision Wound Filter Cartridges



PLC controlled processes enable precise and repeatable winding of each filter zone.

Specifications

Cartridge ID:

1" (2.6 cm) nominal std.

1.22" (3.1cm) and 1.5" (3.8 cm) optional

Cartridge OD:

2" (5cm) to 4 1/2" (11.4 cm)

Length

3" (7.6 cm) to 72" (183 cm)

special lengths available

Efficiency: 90% nominal; 80% below 3 micron

Recommended max Change-Out Differential Pressure
30 PSID (2 bar)

Maximum Differential Pressure

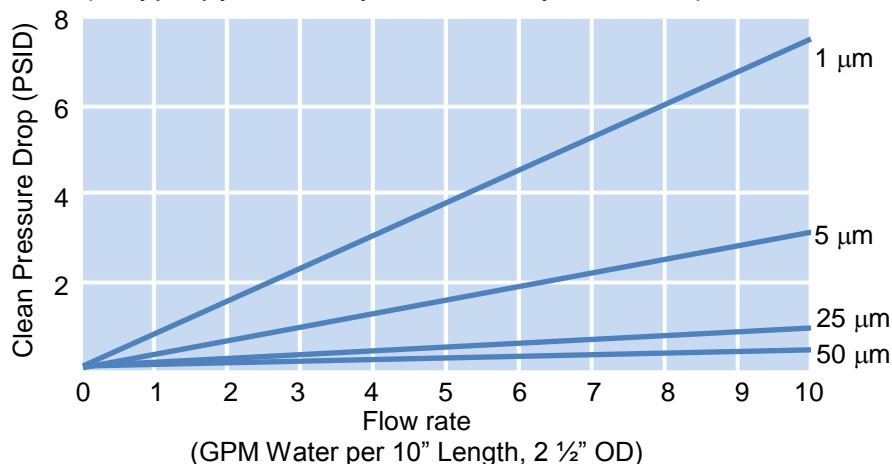
60 PSID (4 bar)

Model/Code Ordering Information

CARTRIDGE TYPE	MICRON RATING	FILTER MEDIA	LENGTH INCHES	CORE TYPE	OUTSIDE DIAMETER*	OPTIONS
HC – High Capacity Wound Filter Cartridge	Downstream / Upstream	01-FDA Polypropylene*	3.75	1 - 1" ID Polypropylene	A-2"	N - polyester core cover
	0.5	02-Fibrillated Polypropylene	4	2 - 1" ID Glass Filled Polypropylene	B-2 1/4"	NF- glass nonwoven core cover; acrylic resin bonded
	1	03-Industrial Polypropylene	4.75		C-2 3/8"	NN - nylon core cover
	2	04- Natural Cotton + Polyester	5	3 - 1" ID Tinned Steel	D-2 1/2"	Y - polypropylene core cover
	3	05- White Cotton	6	4 - 1" ID 304 SST	E-2 5/8"	
	5	06- FDA Bleached Cotton	9.75	6 - 1" ID 316 SST	G-3"	2SP - 222 w/ plug
	10	09- Rayon	10	7 - 1" ID Nylon	H-4"	2SD - 222 w/ disc
	15	11- Nylon	12	8 - 1.22" ID	I- 4 1/4"	2SF - 222 w/ fin
	20	13-Polyester	12.5	Polypropylene	J-4 1/2"	6SP - 226 w/ plug
	25	14-Acrylic	19.5	9 - 1.5" ID		6SD - 226 w/ disc
	30	15- Glass Fiber	20	Polypropylene	*nominal diameters	6SF - 226 w/ fin
	50	18- Polyphenylene Sulfide PPS	24.5	10 - 1.5" ID tin steel		E - Extended Core
	75	20 – Antimicrobial Polypropylene	29.25	11 - 1.5" ID 304 SS		EC - end caps PVC
	100	21- Heat resistant meta-aramid	30	12 - 1.75" ID		ECP - end caps polypro
	125	Conex® (trademark of Teijin)	36	Polypropylene		P- plug in one end
	150	22- Nylon 6	39			SC - Sock Cover
	200	33 –EcoWound™ filter **	40			SPR- polypro spring
		50				
		72				
* Filter versions certified to ANSI/NSF 61 are available – contact us.				Example: HC-5/50-03-20-1-D 50 Micron over 5 Micron, Industrial Polypropylene Medium, 20" Length, 1" ID Polypropylene Core, 2 1/2" OD		
** Media code 33 contains recycled polyester, cotton and polypropylene.						

Pressure Drop vs. Flow Rate

(Polypropylene, Polyester and Nylon Media)



Note: Please consult factory for data on other media and fluids.

Max Temperature				
Media	Polypro Core	Polyester Core	Tin Core	SST Core
Polypropylene	180 F	180 F	180 F	180 F
Cotton	180 F	250 F	250 F	250 F
Acrylic	180 F	250 F	250 F	250 F
Rayon	180 F	275 F	275 F	275 F
Nylon	180 F	275 F	275 F	275 F
Polyester	180 F	300 F	300 F	300 F
Fiberglass	180 F	300 F	400 F	750 F

2³/₈" OD – 2 1/2" OD Box Quantities: 10" – 40/box; 20", 30", 40", 50" – 20/box

4 1/2" OD Box Quantities: 10" – 10/box; 20" – 5/box