



AVASAN™ Filter Cartridges

■ Polypropylene

Bonded Depth Series

High Purity Melt Blown Depth Cartridges

Avasan™ (AVS) cartridges are manufactured with Parker's proprietary melt blown manufacturing process using a specially formulated polypropylene polymer. This formulation provides a uniquely graded density filter cartridge designed for high purity applications. The fiber matrix of the cartridge has been engineered to provide structural integrity throughout the long service life of the cartridge and the finish-free construction provides optimum fluid purity and eliminates foaming. Avasan's inherent fluid compatibility properties plus graded density make it the economical filter choice for high clarity requirements.

Applications

- DI Water
- R.O. Prefiltration
- Food & Beverages
- Potable Water



Features and Benefits

- Fixed pore construction provides consistent product quality and excellent particle retention.
- Graded density construction provides built-in prefiltration and longer life.
- Continuous bonding of fibers throughout the filter matrix ensures non-fiber releasing construction.
- All materials biosafe in accordance with USP Class VI-121°C Plastic Test.
- Superior inter-layer bonding provides true three dimensional filtration and a construction that does not compress with increasing pressure.
- All materials listed as acceptable for potable and edible contact according to CFR Title 21.
- Pure polypropylene construction.
- Parker Process Filtration Division is an ISO9000:2000 Certified Division.
- Finish-free construction provides optimum fluid purity and eliminates foaming.

Process Filtration Division



Bonded Depth Series

Specifications

Nominal Filtration Ratings (90%) :

- 1µm, 3µm, 5µm, 10µm, 20µm, 30µm, 50µm and 75µm

Materials of Construction:

- Filter Medium: 100% melt blown polypropylene
 - End Caps/Adapters (optional): polyolefin copolymer
 - Seal Options: Various; refer to Ordering Information
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title
 - Pending Certifications: NSF - Materials only

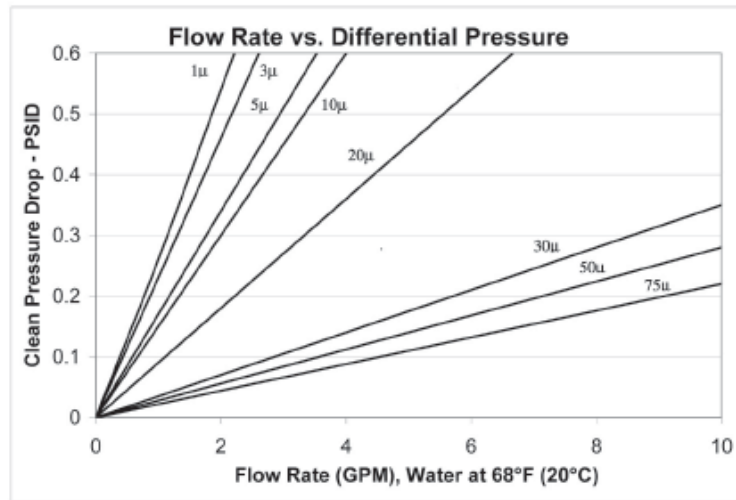
Maximum Recommended Operating Conditions:

- Temperature:
 - @ 50 psid (2.7 bar): 80°F (27°C)
 - @ 25 psid (1.4 bar): 140°F (60°C)
- Flow Rate: Actual flow rate depends on fluid viscosity, micron rating, contaminant and media.
- Change Out ΔP: 35 psi (2.1 bar)

Dimensions (Nominal):

- 1-1/16 in. (27mm) ID x 2-7/16 in. (62mm) OD (max.)
- 4, 10, 20, 30, and 40 in. continuous nominal lengths

AVS Pressure Drop Graph



Flow Rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Ordering Information

AVS	10	M	10	TC	N
Cartridge Code	Micron Rating (µm)	Filter Medium	Nominal Length	End Cap Configuration	Seal Material
AVS = AVS Cartridge	1	M = FDA Grade Polypropylene	Code in. mm	None = DOE (w/o gaskets)	A = Poly Foam gaskets with Collars (DO only)
	3		4 = 4 102	DO = DOE (w/gaskets)	E = EPR
	5		9.75 = 9.75 248	LL = 120 O-Ring (Both Ends)**	N = Buna-N
	10		10 = 10 254	LR = 120 O-Ring/Recessed**	S = Silicone
	20		19.5 = 19.5 495	OB = Std. Open End/Polypro Spring Closed End	T = PFA Encapsulated Viton* (222, 226 O-Ring Only)
	30		20 = 20 508	PR = 213 O-Ring/Recessed**	V = Viton*
	50		29.25 = 29.25 743	SC = 226 O-Ring/Flat Cap	W = Poly Foam gaskets without Collars (DO only)
	75		30 = 30 762	SF = 226 O-Ring/Fin	
			39 = 39 991	TC = 222 O-Ring/Flat Cap	
			40 = 40 1016	TF = 222 O-Ring/Fin	
				TX = 222 O-Ring/Flex Fin	
				XA = DOE with Core Extender	
				XB = Ext. Core Open/Polypro Spring Closed End	

* A trademark of E. I. duPont de Nemours & Co.
 **Available only in 9.75" and 19.5" lengths.

Process Filtration Division

Parker Hannifin Corporation
 Process Filtration Division
 6640 Intech Boulevard
 Indianapolis, Indiana 46278
 Toll Free 1-888-238-5356
 Telephone (317) 275-8300
 Fax (317) 275-8410
<http://www.parker.com/processfiltration>

