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ValueBond Depth Filter Cartridge

A Parker Filtration Product - Asia Pacific



Product Lines

The ValueBond Nominal cartridge is one of the most economical high purity filters available in Parker. Constructed with a graded density matrix design using fine Polypropylene fibers, it provides low initial pressure drop for enhanced flow and the two-layers structure gives superior service life.

Features & Benefits

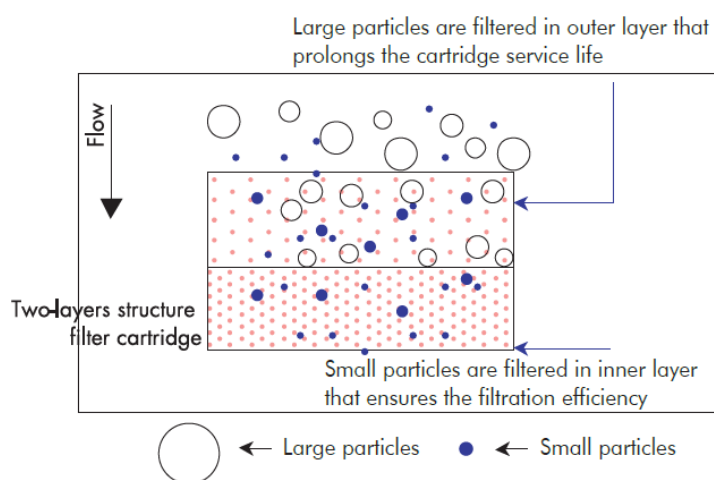
- Two-layers structure cartridge, enhanced dirt holding capacity.
- Polypropylene construct provides broad chemical compatibility for a variety of applications.
- Thermally bonded without the use of any binders and adhesives.
- Materials of construction listed in FDA 21 CFR.
- Meets the latest EC Directives for Food Contact.

Operation Conditions

- Maximum operating forward pressure:
80°C: 1.15 bar
60°C: 2.05 bar
20°C: 4.10 bar
- *Recommended change out differential pressure: 2.4 bar
- Maximum operating temperature: 80°C
- * subject to operating temperature.

Applications of Product

- Photographic Chemicals
- DI Water
- Plating Solutions
- R.O. Pre-filtration
- Membrane Pre-filtration
- Oil field Fluids
- Bleach
- Potable Water
- Chemical Processing Fluids



Product Specifications

Micron ratings: Available in nominal ratings of 0.5, 1, 3, 5, 10, 25, 50, 75 and 100 micron

Material of construction: 100% melt-blown PP

Nominal Length: 10", 20", 30", 40", 50", 60"
(254mm, 508mm, 762mm, 1016mm, 1270mm, 1524mm)

Inner / Outer Diameter: 28mm / 63mm

The Efficiency of ValueBond Filter Cartridge

Initial Pressure Drop

Rating (µm)	Aqueous Service PSI/GPM per 10" Cartridge
0.5	0.14
1	0.11
3	0.10
5	0.08
10	0.05
25	0.04
50	0.03
75	0.02
100	0.02

Dirt Holding Capacity

Rating (µm)	Capacity (g/ 10")
0.5	25
1	40
3	50
5	63
10	105
25	120
50	150
75	175
100	200

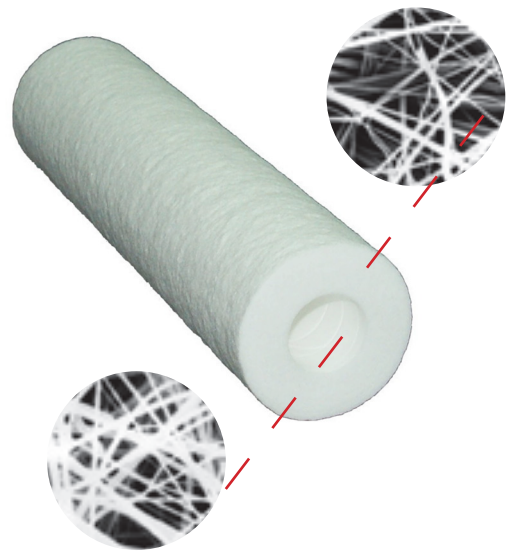
Flow Rate and Pressure Drop Formulas

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

Notes:

1. Clean ΔP is psi differential at start.
2. Viscosity is centistokes. Use Conversion. Tables for other units.
3. Flow Factor is $\Delta P/\text{GPM}$ at 1 cks for 10" (or single).
4. Length Factors convert flow or ΔP from 10" (single length) to required cartridge length.



Ordering Information

VB		M							
Cartridge Code		Micrometer Rating (µm)		Nominal Length		End Cap Configuration		Seal Material	
VB	ValueBond Nominal	Code	Description	Code	Inches	Code	Description	Code	Material
		05	0.5	9-4	9 ^{3/4"}	N	DOE	None	No seal material
		1	1	10	10"	DO	DOE (with gasket)	E	EPDM
		3	3	19-4	19 ^{1/2"}	SF	226 O-ring / Fin	N	Buna N
		5	5	20	20"	SC	226 O-ring / Flat	S	Silicone
		10	10	29	29 ^{1/4"}	TF	222 O-ring / Fin	V	Viton
		25	25	30	30"	TC	222 O- ring / Flat	T	PFA Encapsulated
		50	50	39	39"			A	PE (Applicable for DO only)*
		75	75	40	40"				
		100	100	50	50"				
				60	60"				

* PE maximum temperature 60°C

North America

Compressed Air Treatment

Filtration & Separation/Balston
Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airtek Filtration

Airtek/donnick hunter/Zander
Lancaster, NY
716 686 6400
www.parker.com/faf

Finite Airtek Filtration/Finite

Oxford, MI
248 628 6400
www.parker.com/finitefilter

Engine Filtration & Water Purification

Racor
Modesto, CA
209 521 7860
www.parker.com/racor

Holly Springs, MS

662 252 2656
www.parker.com/racor
Beaufort, SC
843 846 3200
www.parker.com/racor

Racor – Village Marine Tec.

Gardena, CA
310 516 9911
desalination.parker.com

Sea Recovery

Carson, CA
310 637 3400
www.searecovery.com

Hydraulic Filtration

Hydraulic Filter
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter
Laval, QC Canada
450 629 9594
www.parkerfarr.com

Process Filtration

domnick hunter Process Filtration
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

SciLog

Madison, WI
608 824 0500
www.scilog.com

Aerospace Filtration

Velcon Filtration Division

Colorado Springs, CO
719 531 5855
www.velcon.com

Europe

Compressed Air Treatment

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Gateshead, England
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Parker Gas Separations

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West Sussex, England
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Process Filtration

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