



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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

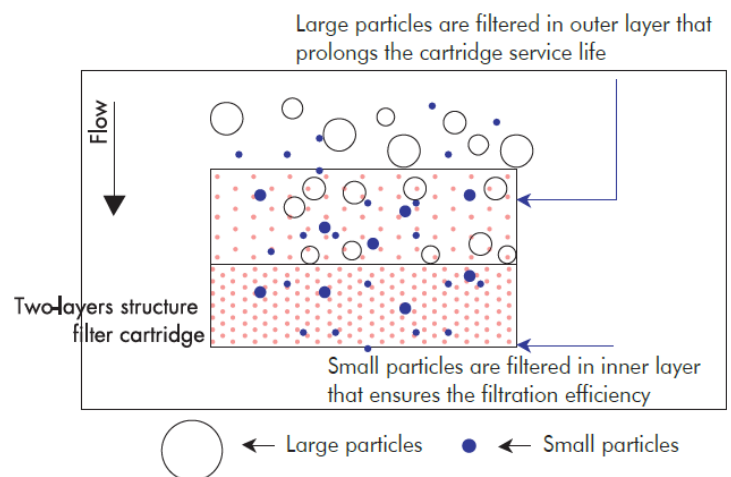
Product Specifications

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

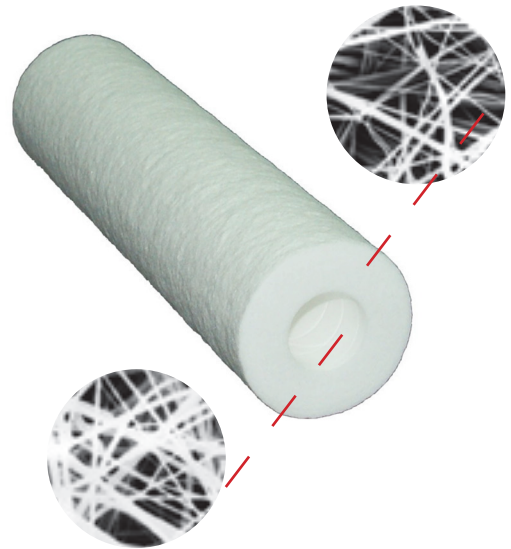
Flow Rate and Pressure Drop Formulas

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

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

Notes:

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



Ordering Information

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/domnick 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
domnick hunter Filtration & Separation
Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfn

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfn

Hiross Zander
Padova Business Unit
Padova, Italy
+39 049 9712 111
www.parker.com/hz

Hiross Zander
Essen Business Unit
Essen, Germany
+49 2054 9340
www.parker.com/hzd

Engine Filtration & Water Purification
Racor
Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development
Stuttgart, Germany
+49 (0)711 7071 290-10
www.parker.com/rfde

Hydraulic Filtration
Hydraulic Filter
Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Urjala Operation
Urjala, Finland
+358 20 753 2500
www.parker.com/hfde

Condition Monitoring Center
Norfolk, England
+44 1842 763 299
www.parker.com/hfde

Kittiwake
West Sussex, England
+44 (0) 1903 731 470
www.kittiwake.com

Process Filtration
domnick hunter Process Filtration
Birtley, England
+44 (0) 191 410 5121
www.parker.com/processfiltration

Parker Hannifin
Asia Pacific Filtration Group
Bulletin: AP PFG PRO01_VB_FY15
1265 Rama 9 Road, Suanluang,
Bangkok, Thailand
T +66 2 186 7000
F +66 2 374 2727
www.parker.com

Asia Pacific

Australia
Castle Hill, Australia
+61 2 9634 7777
www.parker.com/australia

China
Shanghai, China
+86 21 5838 3030
www.parker.com/china

India
Chennai, India
+91 44 4391 0799
www.parker.com/india

India (Parker Fowler)
Bangalore, India– 560 099
+91 80 27836794
www.johnfowlerindia.com

Japan (Parker Techno)
Osaka, Japan
+81 6 6340 1600

Korea
Hwaseon-City
+82 31 359 0720
www.parker.com/korea

Singapore
Fourth Chin Bee, Singapore
+65 6887 6300
www.parker.com/singapore

Thailand
Rayong, Thailand
+66 38 926300
www.parker.com/thailand

Latin America
Parker Comercio Ltda.
Filtration Division
Sao Paulo, Brazil
+55 12 4009 3500
www.parker.com/br

Pan American Division
Miami, FL
305 470 8800
www.parker.com/panam

Africa
Aeroporto Kempton Park, South Africa
+27 11 9610700
www.parker.com/africa