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

GEOFLUID
Evolving solid solutions.

ValueBond Depth Filter Cartridge

A Parker Filtration Product - Asia Pacific

Parker Techno

ENGINEERING YOUR SUCCESS

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.
- Polyproylene 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.

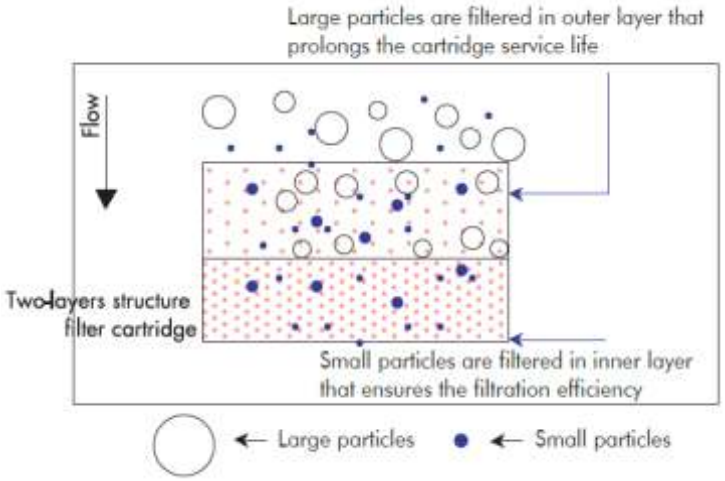
Operation Conditions

- 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 and100 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

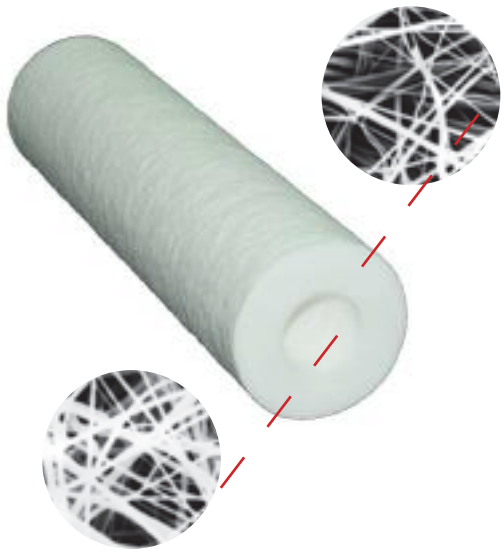
Rating (µm)	Capacity (g/ 10)
0.5	25
1	40
3	50
5	63
10	105
25	120
50	150
75	175
100	200

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 centistrokes. Use Conversion. Tables for other units.
3. Flow Factor is ΔP/GPM at 1cks 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	
VB	ValueBond Nominal

Micrometer Rating (µm)	
Code	Description
05	0.5
1	1
3	3
5	5
10	10
25	25
50	50
75	75
100	100

Nominal Length	
Code	Inches
9-4	$9^{3/4}$
10	10
19-4	$19^{1/2}$
20	20
29	$29^{1/4}$
30	30
39	39
40	40
50	50
60	60

End Cap Configuration	
Code	Description
N	DOE
DO	DOE (with gasket)
SF	226 O-ring / Fin
SC	226 O-ring / Flat
TF	222 O-ring / Fin
TC	222 O- ring / Flat

Seal Material	
Code	Material
None	No seal material
E	EPDM
N	Buna N
S	Silicone
V	Viton
T	PFA Encapsulated
A	PE (Applicable for DO only)*

* PE maximum temperature 60°C

GEOFLUID
Evolving solid solutions.

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