

Masterfilter RBC series

The Masterfilter RBC series filters are manufactured from fibres bonded together by a resin, thereby creating rigid graded density depth filters. Resin Bonded filters are available either as the AP (Acrylic fibre bonded with Phenolic resin) or as the CM (Cellulose fibre bonded with Melamine resin). Bonding the fibres with the resin, creates a rigid pore structure that allows the filter to be used in demanding process conditions, such as high temperatures, high viscosities and with aggressive chemicals.

Applications

Resin Bonded is ideal for retention of micro-gels, colloids, agglomerates and other polymorphous particulates and unlike the deformable melt-blown and string-wound filters, it prevents unloading of the contaminant under pressure. The unique manufacturing process coats the fibres with the resin and so forming a high-density torturous matrix with high void volume. These features enable the Resin Bonded filters suitability across a wide range of applications

- Paints
- Inks
- Adhesives
- Epoxy resins
- Organic solvents
- Emulsions
- Varnishes
- Lacquers
- Waxes
- Process water
- Fertilisers
- Pesticides
- Lubricants
- Light oils
- Coolants
- Cutting fluids
- Polishes
- Transformer oils
- Dielectric oils
- Chemicals

Resin Bonded filters are not designed to be used in Food and Beverage or Pharmaceutical applications.



Features and Benefits

- Rigid resin bonded construction - No by-pass of fluids and contaminant unloading under pressure
- Graded pore density (matrix) - High porosity with low pressure drop and filtration consistency
- Coreless structure - Low disposable cost, no metals or plastics
- Grooved Structure - Increases surface area allows better life to blockage
- Made from continuous 20" modules (40" = 2 x 20") - Reduced channelling between ends, no by-pass of fluid and less brittle at joints
- Broad micron range (1 to 100 μ m) - Suitable for wide range of applications and contaminants

Materials of Construction

- Filter media:
 - AP - Acrylic fibres with Phenolic resin
 - CM - Cellulose fibres with melamine resin
- Core: Non
- Visual appearance:
 - AP - Brown, grooved
 - CM - White, grooved
- Dimensions:
 - Inner diameter: 28.0 mm
 - Outer diameter: 62.5 mm

Masterfilter RBC Series Filter

Resin Bonded Acrylic Phenolic or Cellulose Melamine Cartridge Filter



Operating Parameters

- Max. operating temperature: 120 °C / 248 °F
- Max. differential pressure change out: < 72 PSID / 5 bar
- Recommended max. differential pressure change out: < 58 PSID / 4 bar*

* Please refer to office for accurate sizing as fluid viscosity and operating pressures will affect maximum change out pressure

Part Numbers

RBC AP - 0050 - 40 DOE

Code	Filter media
AP	Acrylic phenolic
CM	Cellulose melamine

Code	Removal rating [µm]
0002	0.2*
0005	0.5*
0010	1
0020	2
0030	3
0050	5
0100	10
0150	15
0250	25
0500	50
0750	75
1000	100

Code	Length	
	[mm]	[inch]
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
DOE	Double end caps
Code 3	SOE222 O-rings/flat

* Only for filter media code CM

e.g. part number: RBC-AP-0050-40-DOE

RBC filter, Acrylic phenolic, 5 µm, 40" Length, Double End caps