**Resin Bonded Filters**

Economical Depth Filtration at higher flow rates and higher viscosities. Matrix cartridges have a two-stage filtration design to maximize particle removal and service life in viscous fluid filtration applications.

Matrix cartridges are available in several different micron ratings including 2, 3, 5, 10, 25, 50, 75, 100, 125, and 150 to meet a wide variety of performance requirements.

**BENEFITS**

The unique wrapping of continuous fiberglass media with a formulated phenolic resin makes it possible to provide:

- True gradient density
- Consistent particle removal efficiencies
- Extended cartridge life
- PH range from 4 to 10 in most applications
- Extensive chemical compatibility
- Extra long acrylic/polyester fibers provide added strength and resist breakage.
- Wide range of effective applications
- Provided in a choice of four styles:
  - RBP-Plain Cylindrical Surface
  - RBG-Grooved for increased surface area.
  - RBGC-Grooved/Economical Grade.
  - RBW-Grooved for food and water applications.
- Silicone free construction ensures no contamination to adversely affect adhesion properties of coatings.
- Outer layers collect large particles, while inner layers control particle removal at rated size.
- Available with optional end treatments.
- Withstands pressure surges up to 125 psi across cartridge.
- Phenolic resin impregnation strengthens cartridge for use with fluid viscosities up to 15000 SSU.

**TYPICAL APPLICATIONS**

- Abrasives
- Adhesives
- Animal Oils
- Chemical Coatings
- Emulsions
- Organic Fluids
- Organic Solvents
- Paints
- Petroleum
- Plasticizers
- Printing Inks
- Process Water
- Resins
- Waxes

**RECOMMENDED OPERATING CONDITIONS**

- Max Temp - RBW = 140˚ F
  - RBGC = 250˚
  - RBG = 200˚
  - RBP = 200˚

Change out P: 50 psi (3.5bar)
## Resin Bonded Filters

### Selection Guide

<table>
<thead>
<tr>
<th>RBG TYPE</th>
<th>50 Micron Rating</th>
<th>CARTRIDGE DIAMETER</th>
<th>98 Length in Diameter</th>
<th>END CAP / CORE OPTIONS</th>
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</thead>
<tbody>
<tr>
<td>RBP=Plain</td>
<td>1 RBP, RBG, RBW</td>
<td>A = Standard</td>
<td>98=9.75”</td>
<td>J = Polypropylene Extender</td>
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<tr>
<td>RBG=Grooved</td>
<td>2 RBGC</td>
<td></td>
<td>10-10”</td>
<td>L = Spring</td>
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<tr>
<td>RBGC=Grooved/Economical Grade</td>
<td>3 RBP, RBG, RBW</td>
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<td>19.5=19.5”</td>
<td>T = Tin Core</td>
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<tr>
<td>RBW=Melamine</td>
<td>5 ALL</td>
<td></td>
<td>20=20”</td>
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<tr>
<td></td>
<td>10 ALL</td>
<td></td>
<td>29=29”</td>
<td></td>
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<tr>
<td></td>
<td>25 ALL</td>
<td></td>
<td>29.3=29.25”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 ALL</td>
<td></td>
<td>29.5=29.5”</td>
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</tr>
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<td></td>
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<td>30=30”</td>
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<td>40=40”</td>
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<td>50 ALL</td>
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</tr>
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<td>100 RBP, RBG, RBW</td>
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<td>ALL</td>
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<tr>
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<td>125 ALL</td>
<td></td>
<td>ALL</td>
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<td>150 ALL</td>
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</table>

### Standard Dimensions

- 2 5/8” Outside Diameter (67mm) • 1.06” Inside Diameter (29.6mm) for RBP, RBG, & RBW Products.
- 2 1/2” Outside Diameter • 1.06” Inside Diameter RBGC Products.

### Resin Bonded Flow Properties

![Pressure Drop (PSI)](image)

Flow (gpm) at 300 SSU (65CKS)
Matrix’s Fiberglass Resin-Bonded Filter Cartridges offer proven performance in high temperature and high pressure applications.

**Typical Applications**

- Solvents
- Varnishes
- Paints
- Coolants
- Inks
- Fuels and Lube Oils
- Inks

**Note:** The filtration of industrial or potable water is not recommended with this cartridge.

**Standard Dimensions (nominal)**

**Lengths:**
9.75 to 60 inches (24.8 to 153 cm)

**Outside Diameter:**
2.6 inches (6.6 cm)

**Inside Diameter:**
1.1 inch (2.8 cm)

**Construction Materials**

- **Filtration Media:** Microfiberglass
- **Binder:** Phenolic Resin
- **Core:** Tin or Stainless

**Maximum Recommended Operating Conditions**

- **Differential Pressure:** ΔP-80 PSI
- **Temperature:** 360°F (200°C)

**Ordering Information**

<table>
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<tr>
<th>GFR</th>
<th>MICRON</th>
<th>GROOVING</th>
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