

Resin Bonded Filters

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.



RBGC Series

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)

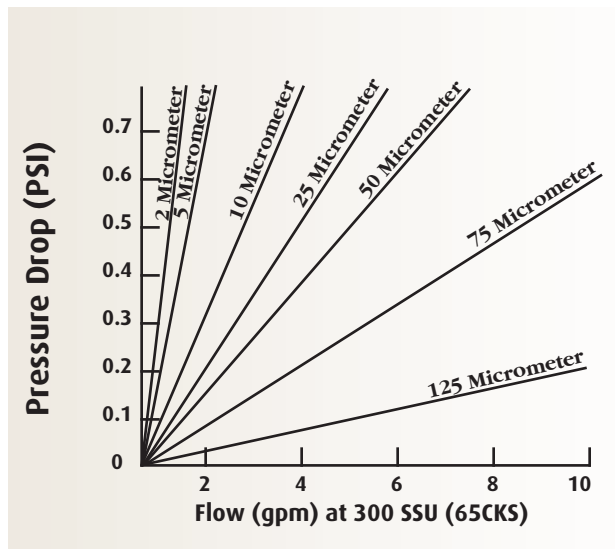
SELECTION GUIDE

RBG TYPE	50 MICRON RATING	A CARTRIDGE DIAMETER	98 LENGTH IN DIAMETER	END CAP / CORE OPTIONS L
RBP=Plain	1 RBP, RBG, RBW	A = Standard	98=9.75"	J = Polypropylene Extender
RBG=Grooved	2 RBGC		10=10"	L = Spring
RBGC=Grooved/ Economical Grade	3 RBP, RBG, RBW		19.5=19.5"	T = Tin Core
RBW=Melamine	5 ALL		20=20"	
	10 ALL		29=29"	
	25 ALL		29.3=29.25"	
	50 ALL		29.5=29.5"	
	10 ALL		30=30"	
	25 ALL		39=39"	
	50 ALL		40=40"	
	75 ALL			
	100 RBP, RBG, RBW			
	125 ALL			
	150 ALL			

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**



Fiberglass Resin-Bonded Filter Cartridge

RESIN BONDED FILTERS

Matrix's Fiberglass Resin-Bonded Filter Cartridges offer proven performance in high temperature and high pressure applications.



Typical Applications

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

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

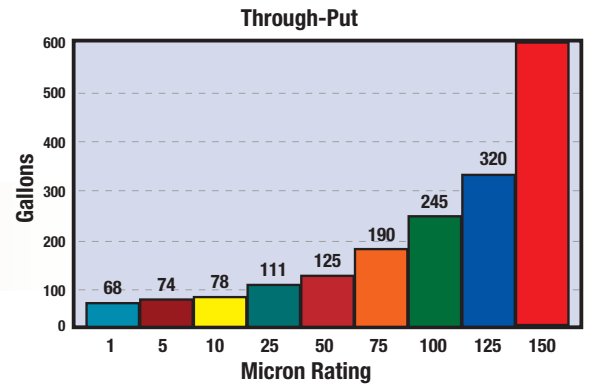
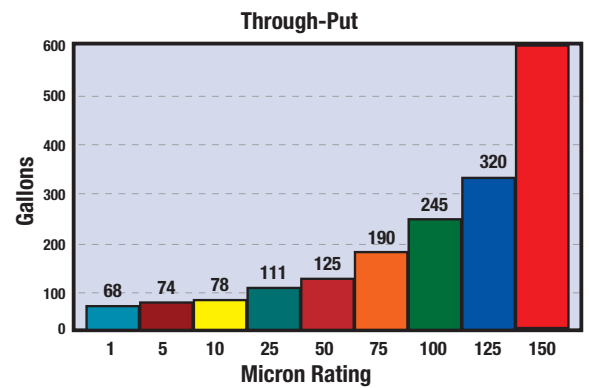
Maximum Recommended Operating Conditions

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

Ordering Information

GFR	MICRON	GROOVING	LENGTH	COVER	VAIL	CORE
	1	U = Ungrooved	9.75	N = None	N = None	N = None
	5	G = Grooved	10	C = Cotton	V = Core Vail	T = Tin
	10		19.5			HT = Heavy Tin
	25		20			S = Stainless
	50		29.25			P = Polypropylene
	75		30			
	100		39			
	125		40			
	150					

Performance Data



Average Test Data to 30 psi ΔP, using A.C. Course Dust in Water. At a constant flow rate of 3 GPM.