INDUSTRIAL RESFLEX SERIES
RESIN BONDED CARTRIDGES

Industrial§ Resflex Resin Bonded Cartridges are a patented breakthrough in resin bonded cartridge design.

A unique, proprietary two-stage filtration construction maximizes particle removal and service life in viscous fluid filtration applications. An outer, spiral, prefilter wrap increases cartridge strength and eliminates residual debris associated with conventional, machined, resin bonded cartridges. The inner layers control particle removal at the rated size.

FEATURES/BENEFITS

Outer wrap increases surface area and eliminates loose debris and contamination caused by machined products

Extra-long acrylic fibers provide added strength, resist breakage and migration common with competitive "short fiber" cartridges

Phenolic resin impregnation strengthens cartridge for use with fluid viscosities up to 15,000 SSU (3200 cks)

Withstands pressure surges up to 150 PSID (10.3 bar) across cartridge (depending on fluid temperature)

Double-open-ended one-piece construction eliminates bypass concerns with multilength cartridges and eases change out

Silicone-free construction ensures no contamination to adversely affect adhesion properties of coatings

Flow rate 10 gpm (38 Lpm) per 10" (254 mm) length

APPLICATIONS

Adhesives
Chemical Coatings
Emulsions
Organic Solvents
Paints
Petroleum Products
Printing Inks
Process Water
Resins
Waxes

CARTRIDGE SPECIFICATIONS

Filter Media	Acrylic Long Stable Fiber; Phenolic Bonding Resin
Max. Temp. Rating	250˚F (121˚C)
Max. Differential Pressure	150 PSID (10.3 bar)
Outer Diameter	2.56" (65 mm)

FLOW RATE & PRESSURE DROP FORMULAS

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

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

1. Clean ΔP is PSI differential at start.
2. Viscosity is centistokes.
3. Flow Factor is ΔP/GRM at 1 cks for 10" (254 mm) or single length
4. Length Factors convert flow or ΔP from 10" (254 mm) single length to required cartridge length.

CASE QUANTITY

SIZE	CASE QUANTITY
10"	60
20"-30"	30
40"	15

FLOW FACTORS

RATING (µ) (NOMINAL)	FLOW FACTORS
2	0.08
5	0.04
10	0.02
25	0.012
50	0.01
75	0.006
125	0.0013
150	0.0010

LENGTH FACTORS

LENGTH	FLOW FACTORS
9" (228 mm)	1.0
10" (254 mm)	1.0
19" (483 mm)	2.0
20" (508 mm)	2.0
29" (737 mm)	3.0
30" (762 mm)	3.0
39" (991 mm)	4.0
40" (1,016 mm)	4.0

ORDERING INFORMATION

To create your ordering part number, use the part number configurator below.
Custom configurations available. Please contact customer service.

EXAMPLE: RBP5-20

Resflex Filter Cartridge (RBP)
5-micron rating (5), 20" length (20)

RBP - 5 - 20

RESFLEX	µ (NOMINAL)	LENGTH (IN.)
RBP	2	9.75
	5	10
	10	19.5
	25	20
	50	30
	75	40
	125	
	150	
	200	
	250	

PENTAIR

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