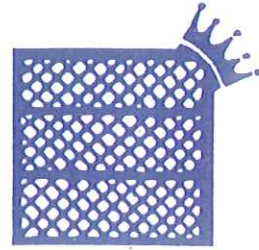
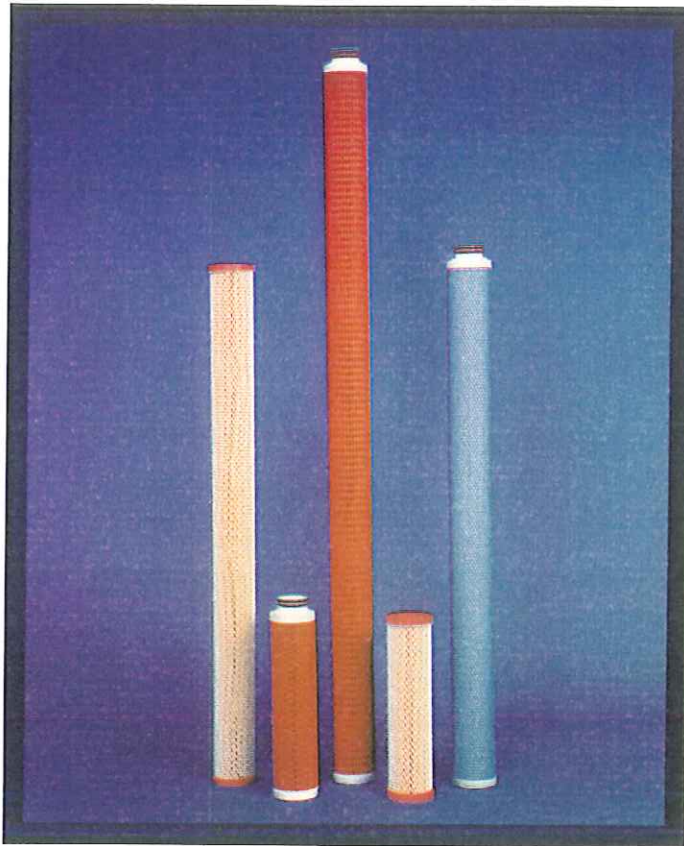

ROYAL



FILTER MANUFACTURING COMPANY

4327 South 4th Street • Chickasha, OK 73018 • (405) 224-0229



**Pleated Cellulose Cartridges
RAB and RN Series**

www.royalfilter.com

Features

- * Glass/Cellulose, high efficiency media, RAB series
- * Resin impregnated cellulose, RN series
- * 60 psid pressure differential rating
- * Polypropylene center tubes, except 404 style
- * Polypropylene net media support
- * Open end elements have PVC ends
- * 222 O-ring and 363 style elements have isoplastic ends
- * 404 style elements have plated metal components
- * Epoxy end caps adhesive on 222,363 and 404 series
- * Buna N O-ring and gaskets are standard. Viton is available.

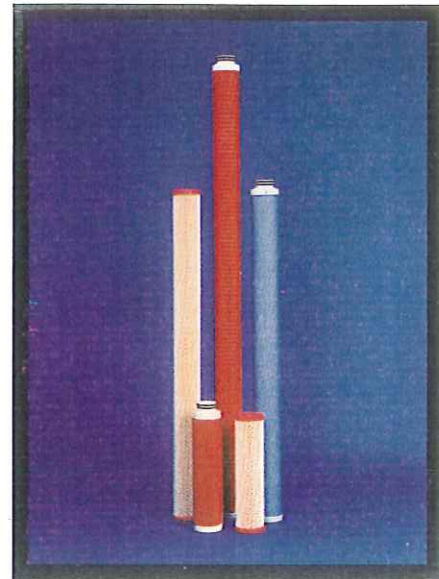
The RAB and RN series elements are offered in a variety of configurations and sizes to replace current industry cartridges. These elements are available in 10, 20, 30, 36, and 40 inch lengths. They are utilized for the removal of particulates from a wide range of products, as either prefilters or final filters. The Royal pleated element is a superior alternative to conventional string wound, resin bonded, and polyspun cartridges.

RAB Series

The RAB series is a high quality filter element that should be used when absolute efficiency filtration is required. These elements are constructed using a special media that is a combination of phenolic resin impregnated cellulose and micro glass fibers. The high glass content of this media allows these cartridges to insure high flow rates and efficient filtration in water based fluids, chemicals, and petroleum based products. RAB series elements are ideal for product cleanup when extremely fine particles are present and nominal filtration will not do the job. Well formations and critical equipment are protected from damage by fine particulate removal, resulting in longer service life and less down time. RAB elements are available in micron ratings of 2, 5, 10, 20 and 30.

RN Series

The RN series is an economical solution when absolute filtration is not required. These elements are constructed using a phenolic resin impregnated, pleated cellulose media. Other materials of construction are the same high quality materials utilized in the RAB series. RN elements are available in nominal micron ratings of 2, 5, 10, 25 & 30.



Replacements are available for various manufacturers' and OEM cartridges. Please consult our cross reference for interchange information. If you do not find the cartridge you require in our cross reference information, or if you have a special application, please contact our sales department for further assistance.

Performance and Efficiencies

Filtration efficiencies for Royal RAB & RN series elements are determined in accordance with ISO-4572 multipass test procedures. Please refer to the charts in the element specification section of this brochure for ratings.

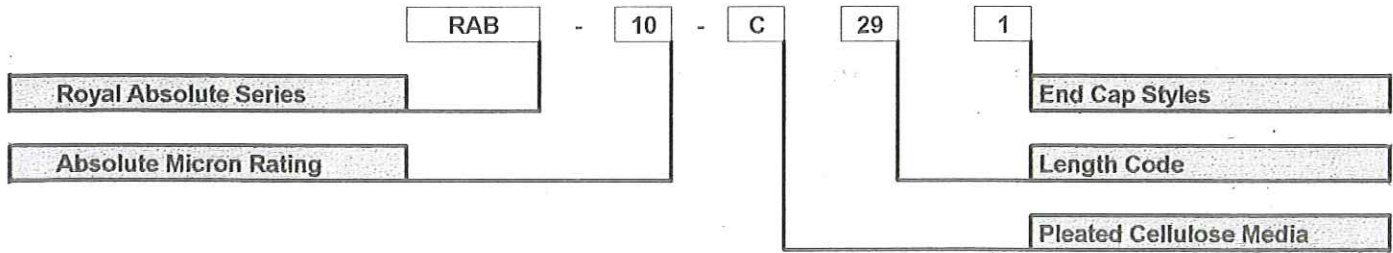
Applications

- | | |
|---------------------|--------------------|
| * Amines | * Lube & seal oils |
| * Chemicals | * Solvents |
| * Completion fluids | * Salt water |
| * Glycols | * Brines |
| * Fuel oils | * Waste water |
| * Hydraulic oils | * Water flood |
| * Insulating oils | * Other products |

Replacements for:

- | | |
|---------------------|----------------|
| * Commercial/Parker | * Pall |
| * Filterite | * Peco |
| * FTC | * Porous Media |
| * Jonell | * And Others |

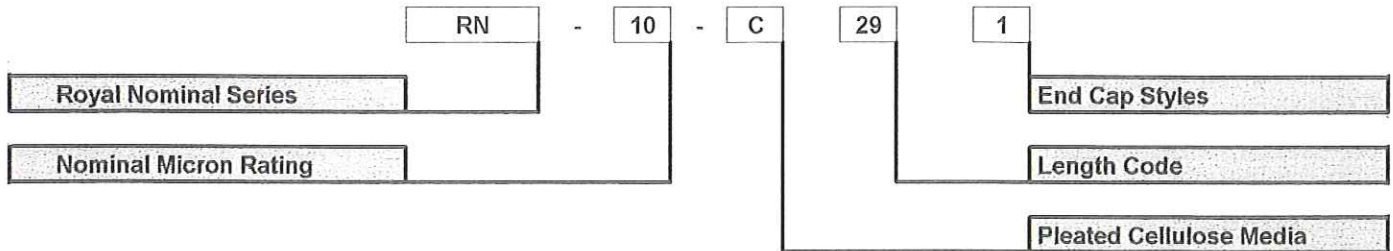
Numbering System - RAB Series



Micron	Efficiency	Beta
2	98.67%	75
5	99.26%	133
10	99.75%	400
20	98.77%	82
30	99.90%	1000

Note: Other Absolute Micron Rating Available upon Request. Consult our Sales Department for further information.

Numbering System - RN Series



Micron	Efficiency	Absolute/Beta
2	72%	10>75
5	69%	18>75
10	85%	18>75
25	95%	30>75
30	65%	N/A

Note: Other Nominal Micron Rating Available upon Request. Consult our Sales Department for further information.

End Cap Styles

Style #	Description
1	Double open end, 2.625" OD x 1.063" ID, PVC plastisol ends with gasket surface built in
2	Single open end, 2.50" OD, 222 O-ring on open end (1.281" ID), closed other end
3	Single open end, 2.80" OD x 1.5" ID on open end, closed end has spring
4	Single open end, 3.75" OD, closed one end, 2.1875" internal O-ring on open end

Length Codes

Code	Length
10	10"
20	20"
29	29-1/4"
30	30"
36	36"
40	40"

Note: All length dimensions are nominal. Please refer to element specification guide on page 3 for actual dimensions.

Royal Part Number	OD	ID	Length	End Style	Comments
RAB-5-C101	2 5/8	1 1/16	10	1	
RAB-5-C102	2 1/2	1 9/32	10 3/4	2	
RAB-5-C201	2 5/8	1 1/16	20	1	
RAB-5-C202	2 1/2	1 9/32	20 7/8	2	
RAB-5-C291	2 5/8	1 1/16	29 1/4	1	
RAB-5-C301	2 5/8	1 1/16	30 1/8	1	
RAB-5-C302	2 1/2	1 9/32	30 1/8	2	
RAB-5-C363	3	1 1/2	37 7/8	3	Closed one end with spring
RAB-5-C401	2 5/8	1 1/16	40	1	
RAB-5-C402	2 1/2	1 9/32	40 7/8	2	
RAB-5-C404	3 3/4	2 3/16	38 3/4	4	Closed one end, metal components

Please refer to page 2 for end style descriptions. Dimensions are given for 5 micron cartridges. Other micron rated cartridges have the same dimensions as the 5 micron cartridges listed above.

RAB Series cartridges are available in 2, 5, 10, 20, and 30 micron absolute ratings.

Royal Part Number	OD	ID	Length	End Style	Comments
RN-5-C101	2 5/8	1 1/16	10	1	
RN-5-C102	2 1/2	1 9/32	10 3/4	2	
RN-5-C201	2 5/8	1 1/16	20	1	
RN-5-C202	2 1/2	1 9/32	20 7/8	2	
RN-5-C291	2 5/8	1 1/16	29 1/4	1	
RN-5-C301	2 5/8	1 1/16	30 1/8	1	
RN-5-C302	2 1/2	1 9/32	30 1/8	2	
RN-5-C363	3	1 1/2	37 7/8	3	Closed one end with spring
RN-5-C401	2 5/8	1 1/16	40	1	
RN-5-C402	2 1/2	1 9/32	40 7/8	2	
RN-5-C404	3 3/4	2 3/16	38 3/4	4	Closed one end, metal components

Please refer to page 2 for end style descriptions. Dimensions are given for 5 micron cartridges. Other micron rated cartridges have the same dimensions as the 5 micron cartridges listed above.

RN Series cartridges are available in 2, 5, 10, 25, and 50 micron absolute ratings.



How to use this cross reference: This cross reference is in alphanumeric order. Find the part number of competitor element in cross reference. The Royal part number is in the adjacent column. The corresponding letter under Co. column indicates competitor manufacturer according to legend below.

CP = Commercial/Parker
 FIT = Filterite
 FS = Filtersoft
 FTC = FTC

J = Jonell
 P = Peco
 PA = Pall Corp.
 PM = Porous Media

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
P	229-AB-2M	RAB-10-C291	FIT*	DFN 3-40UN	RAB-10-C401
P	229-AC-2E	RAB-5-C291	FIT*	DFN 3-40UN-M3	RAB-10-C402
P	229-AR-2M	RAB-5-C291	FIT*	DFN 30-29.25UN	RAB-30-C291
P	229-BB-2M	RAB-10-C302	FIT*	DFN 30-30UN	RAB-30-C301
P	229-BC-2E	RAB-5-C302	FIT*	DFN 30-30UN-M3	RAB-30-C302
P	229-BR-2M	RAB-5-C302	FIT*	DFN 30-40UN	RAB-30-C401
P	229-BW-2P	RAB-2-C302	FIT*	DFN 30-40UN-M3	RAB-30-C402
P	240-AB-2M	RAB-10-C401	PM	FE24292C05B	RAB-5-C291
P	240-AC-2E	RAB-5-C401	PM	FE24292C10B	RAB-10-C291
P	240-AR-2M	RAB-5-C401	PM	FE24300C05B2	RAB-5-C302
P	240-BB-2M	RAB-10-C402	PM	FE24300C10B	RAB-10-C301
P	240-BR-2M	RAB-5-C402	PM	FE24300C10B2	RAB-10-C302
P	336-FB-2M	RAB-2-C363	PM	FE24300C20B	RAB-20-C301
P	336-FR-2M	RAB-2-C363	PM	FE24300C20B2	RAB-20-C302
FTC	AB-05-C21	RAB-5-C291	PM	FE24400C05B	RAB-5-C401
FTC	AB-05-C22	RAB-5-C302	PM	FE24400C05B2	RAB-5-C402
FTC	AB-05-C33	RAB-5-C363	PM	FE24400C10B	RAB-10-C401
FTC	AB-05-C41	RAB-5-C401	PM	FE24400C10B2	RAB-10-C402
FTC	AB-05-C42	RAB-5-C402	PM	FE24400C20B	RAB-20-C401
FTC	AB-10-C21	RAB-10-C291	PM	FE24400C20B2	RAB-20-C402
FTC	AB-10-C22	RAB-10-C302	PM	FE37390D0PEH	RAB-10-C3739
FTC	AB-10-C33	RAB-10-C363	PM	FE3739C10B	RAB-10-C3739
FTC	AB-10-C41	RAB-10-C401	J	JPM 4240-10A	RAB-10-C404
FTC	AB-10-C42	RAB-10-C402	J	JPMK 2519-5BB-D-P	RAB-10-C1951
FIT	DFN 045-1401	RAB-5-C404	J	JPMK 2529-02AB-D-P	RAB-2-C291
FIT*	DFN 1-29.25UN	RAB-5-C291	J	JPMK 2529-05AB-D-P	RAB-5-C291
FIT*	DFN 1-30UN	RAB-5-C301	J	JPMK 2529-10AB-O-P	RAB-10-C302
FIT*	DFN 1-30UN-M3	RAB-5-C302	J	JPMK 2529-10BB-D-P	RAB-10-C291
FIT*	DFN 1-40UN	RAB-5-C401	J	JPMK 2529-20BB-D-P	RAB-20-C291
FIT*	DFN 1-40UN-M3	RAB-5-C402	J	JPMK 2529-5BB-O-P	RAB-10-C292
FIT*	DFN 10-29.25UN	RAB-20-C291	J	JPMK 2530-10BB-D-P	RAB-10-C301
FIT*	DFN 10-30UN	RAB-20-C301	J	JPMK 2530-10BB-O-P	RAB-10-C302
FIT*	DFN 10-30UN-M3	RAB-20-C302	J	JPMK 2530-20BB-D-P	RAB-20-C301
FIT*	DFN 10-40UN	RAB-20-C401	J	JPMK 2540-05AB-D-P	RAB-5-C401
FIT*	DFN 10-40UN-M3	RAB-20-C402	J	JPMK 2540-05AB-O-P	RAB-5-C402
FIT	DFN 3-1401	RAB-10-C404	J	JPMK 2540-10BB-D-P	RAB-10-C401
FIT*	DFN 3-29.25UN	RAB-10-C291	J	JPMK 2540-10BB-O-P	RAB-10-C402
FIT*	DFN 3-30UN	RAB-10-C301	J	JPMK 2540-20BE-O-P	RAB-20-C402
FIT*	DFN 3-30UN-M3	RAB-10-C302	J	JPMK 4340-10A	RAB-10-C3739



Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
FS	M610CIUUB	RAB-10-C101	CP	PCG020-40AN-TC	RAB-10-C402
FS	M619CIUU	RAB-10-C191	CP	PPC005-1401	RAB-5-C404
FS	M619CJUU	RAB-10-C191	CP	PPC10-29AN-DO	RAB-10-C291
FS	M620CIUUB2	RAB-10-C202	CP	PPC10-29AN-TC	RAB-10-C302
FS	M620CJUUB2	RAB-10-C202	CP	PPC10-30AN-DO	RAB-10-C301
FS	M629CIUU	RAB-10-C291	CP	PPC10-40AN-DO	RAB-10-C402
FS	M629CJUU	RAB-10-C291	CP	PPC10-40AN-TC	RAB-10-C402
PA	MCC140142202H13	RAB-5-C404	CP	PPC3-29AN-DO	RAB-5-C291
PA	MCC1401E100H13	RAB-10-C404	CP	PPC3-29AN-TC	RAB-5-C302
PA	MCC1401E280H13	RAB-30-C404	CP	PPC3-30AN-DO	RAB-5-C301
PA	MCC1401E500H13	RAB-50-C404	CP	PPC3-40AN-DO	RAB-5-C402
PA	MCC1401U220H13	RAB-2-C404	CP	PPC3-40AN-TC	RAB-5-C402
P	P901100-IN-XXLE	RAB-10-C3739	CP	PPC30-29AN-DO	RAB-30-C291
CP	PCC30-335AN-GS	RAB-10-C363	CP	PPC30-29AN-TC	RAB-30-C302
CP	PCG020-10AN-DO	RAB-10-C101	CP	PPC30-30AN-DO	RAB-30-C301
CP	PCG020-1401	RAB-10-C404	CP	PPC30-40AN-DO	RAB-30-C402
CP	PCG020-29AN-DO	RAB-10-C291	CP	PPC30-40AN-TC	RAB-30-C402
CP	PCG020-29AN-TC	RAB-10-C302	P	PPL-336-S1B-10E	RAB-10-C363
CP	PCG020-30AN-DO	RAB-10-C301	P	PPL-336-S1B-2E	RAB-2-C363
CP	PCG020-40AN-DO	RAB-10-C401	P	PPL-336-S1B-40E	RAB-40-C363



AFT = American Filter Tech
 CP = Commercial/Parker
 FS = Filtersoft

FT = Fluitek
 P = Peco
 R = Refilco

Co.	Competitor Part Number	Royal Part Number	Co.	Competitor Part Number	Royal Part Number
P	229-AW-2P	RN-2-C291	CP	PCC30-29AN-TC	RN-10-C302
P	240-AW-2P	RN-2-C401	CP	PCC30-30AN-DO	RN-10-C301
P	240-BW-2P	RN-2-C402	CP	PCC30-40AN-DO	RN-10-C401
AFT	330-10-5	RN-10-C291	CP	PCC30-40AN-TC	RN-10-C402
AFT	330-20-5	RN-25-C291			
AFT	330-30-5	RN-30-C291			
AFT	330-5-5	RN-5-C291			
P	336-FW-2P	RN-2-C363			
PM	FMC23300C20CY-H	RN-20-H403			
PM	FMC23300C40CY-H	RN-40-H403			
FS	M630CKUUB2	RN-10-C302			
FS	M630CLUUB2	RN-25-C302			
FS	M630CMUUB2	RN-50-C302			
FT	P 026100-25S8	RN-25-C102			
FT	P 026200-25S8	RN-25-C202			
CP	PCC30-20AN-DO	RN-10-C201			
CP	PCC30-20AN-TC	RN-10-C202			
CP	PCC30-29AN-DO	RN-10-C291			



Filter Manufacturing Company

Specializing in quality replacement elements for industry

Made in the USA

Royal Filter utilizes the latest modern manufacturing equipment and techniques. Our pleaters and cure ovens give us the capability to produce a variety of different elements, utilizing single piece construction, up to 60" in length. Working with our various long term suppliers, and through our continuing employee training and emphasis on quality, we offer a superior quality product at a competitive price.

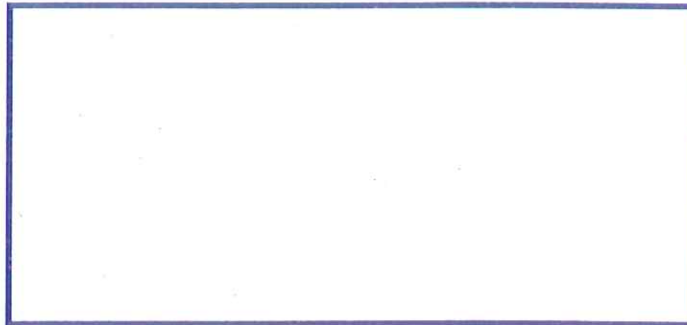
Our modern 48,000 square foot manufacturing facility is designed to allow a smooth, efficient flow of products, from incoming raw materials to outgoing shipments of finished product. This helps to insure prompt, on time deliveries.

Our elements are constructed of the highest quality components. Many different styles of cartridges, medias, and materials of construction are available to fit your specific application.

Customer Service

- Toll Free number to call for orders, assistance, or information: 1-800-256-2559
- LTL shipments are palletized at no charge
- Our central US. location reduces freight costs and transit time
- Excellent freight discounts offered to our customers
- Third party freight billing and freight quotes are available at no additional charge
- Excellent competitor & OEM cross reference information available. Consult factory
- Special elements can be designed, tested, and manufactured to customer specifications
- A firm commitment from ROYAL FILTER MANUFACTURING to excellence in product quality, prompt delivery, and customer satisfaction

For the Royal Filter Distributor nearest you, contact



Royal Filter Manufacturing
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Chickasha, OK 73018

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