



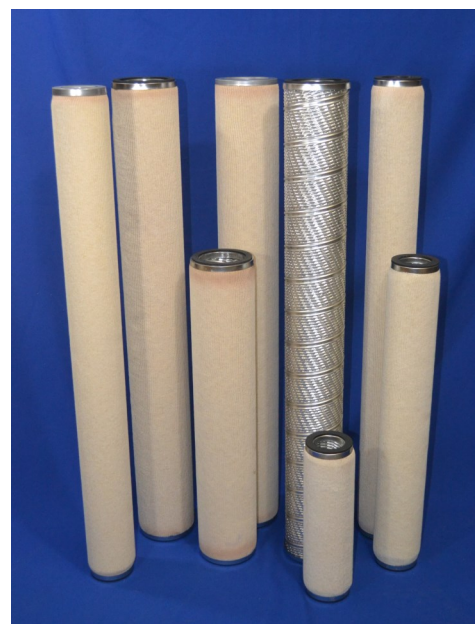
## **FILTER MANUFACTURING COMPANY**

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

### **GAS COALESCER SERIES CARTRIDGES RF SERIES**

#### **RF Series**

The RF Series Fiberglass separator elements have been specifically designed for high contaminant removal, fine filtration and efficient coalescing of aerosols that can be present in a gas stream prior to compression, gas dehydration or other critical processes. As these particles come in contact with each other they become large enough to pass through the cartridge and fall to the bottom of the housing because of gravity. Flow through the filter elements is from outside to inside. The large surface area of the outside of the element allows for the efficient collection of contaminant. The core of the filter element is made from tin-plated steel to prevent collapse of the filter cartridge. The center core is wrapped with a synthetic media to prevent downstream migration. The seamless fiberglass tubes are of single piece construction to eliminate bypass. A Woven Cotton sock functions as a core cover. This product is available in a wide variety of lengths, diameters, and micron ratings.



#### **Product Specifications**

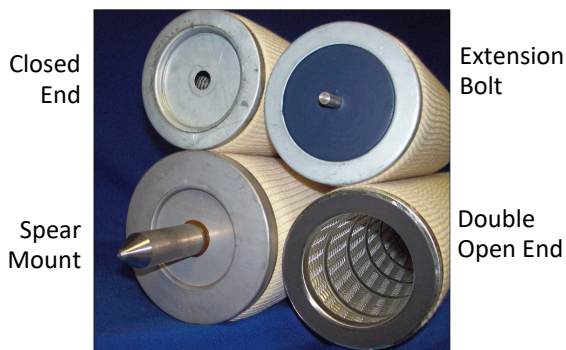
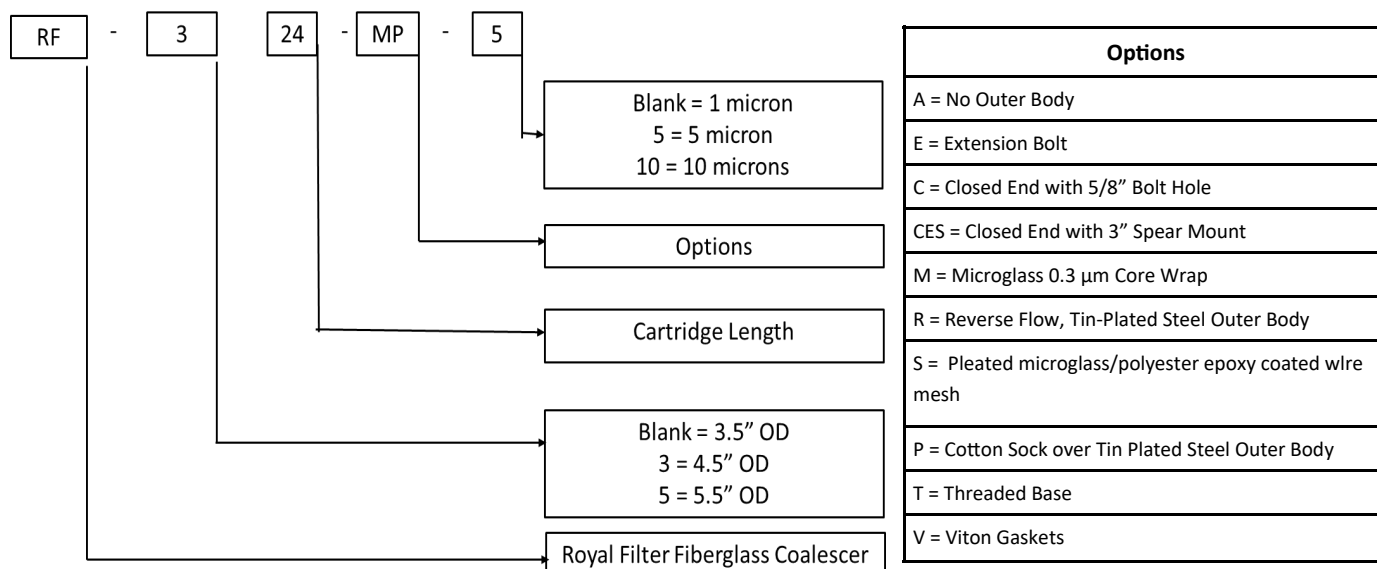
- Recommended Initial dP:  $\leq 2$ psid
- Recommended Terminal dP: 12-14 psid
- Maximum Operating Temperature: 275 F
- Collapse Pressure
  - 3.5" OD—120 PSID
  - 4.5" OD— 75 PSID
  - 4.5" OD Reverse Flow—150 PSID
  - 5.5" OD—35 PSID
- Media: Density Graded Phenolic Impregnated Seamless Fiberglass tube
- Center Core: helical wrapped Tin Plated steel
- Outside Cover: Woven Cotton Sock
- Reverse flow design uses metal outer body
- End Caps: Tin-plated Steel
- Gasket: MIL-R Spec Buna N (other options available)
- Recommended Sealing Torque 8 –10 ft-lbs

#### **Performance**

Filtration efficiency the Royal Filter RF series cartridges is 98% at specified micron rating.



# FILTER PART NUMBERING SYSTEM



## Note:

- The 0.3 µm rated filter is constructed with a specially formulated dual microglass/polyester blend sheet media laminated within the construction of the filter.
- Custom lengths are available. Please contact the sales department for further information.

Royal Filter can provide replacements for the following manufacturers and many others:

Peco
Jonell
JFG
King Tool
Peerless

## APPLICATIONS

Fuel Gas Filtration
Petrochemical Plants
Natural Gas Plants
Gas Distribution
Compressor Stations
Chemical Plants

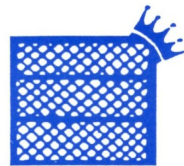
## Royal Filter Gas Coalescer Element Specifications

Part Number	OD	Length	ID	Options
RF-12	3 9/32	12 1/8	2 1/8	
RF-18	3 9/32	18 1/16	2 1/8	
RF-24	3 9/32	24 1/8	2 1/8	
RF-24M	3 9/32	24 1/8	2 1/8	Polyester center wrap barrier

### Royal Filter Gas Coalescer Element Specifications

Part Number	OD	Length	ID	Special Features
RF-24R	3 9/32	24 1/8	2 1/8	Tin plated steel outer cage
RF-36	3 9/32	36 1/8	2 1/8	
RF-36M	3 9/32	36 1/8	2 1/8	Polyester center wrap barrier
RF-36MR	3 9/32	36 1/8	2 1/8	Microglass center wrap barrier, Tin plated steel outer cage
RF-72	3 9/32	72 1/8	2 1/8	
RF-72M	3 9/32	72 1/8	2 1/8	Polyester center wrap barrier (0.3 micron)
RF-312	4 1/2	12 1/8	3 1/8	
RF-312MRCE	4 1/2	12 1/8	3 1/4	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole, Tin plated steel outer cage
RF-324	4 1/2	24 1/8	3 1/8	
RF-324CE	4 1/2	24 1/8	3 1/8	Closed end with 5/8" center hole
RF-324M	4 1/2	24 1/8	3 1/8	Microglass center wrap barrier (0.3 micron)
RF-324MCE	4 1/2	24 1/8	3 1/8	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole
RF-324MRCE	4 1/2	24 1/8	3 1/8	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole, Tin plated steel outer cage
RF-324R	4 1/2	24 1/8	3 1/4	Tin Plated Steel outer cage
RF-336	4 1/2	36 1/8	3 1/8	
RF-336-5	4 1/2	36 1/8	3 1/8	5 micron
RF-336-10	4 1/2	36 1/8	3 1/8	10 micron
RF-336-25	4 1/2	36 1/8	3 1/8	25 micron
RF-336CE	4 1/2	36 1/8	3 1/8	Closed end with 5/8" center hole
RF-336M	4 1/2	36 1/8	3 1/8	Microglass center wrap barrier (0.3 micron)
RF-336MCE	4 1/2	36 1/8	3 1/8	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole
RF-336MRCE	4 1/2	36 1/8	3 1/8	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole, Tin plated steel outer cage
RF-336R	4 1/2	36 1/8	3 1/8	Tin Plated Steel outer cage
RF-336RCE	4 1/2	36 1/8	3 1/8	Tin Plated Steel outer cage, Closed end with 5/8" center hole
RF-371MP	4 1/2	71 1/2	4 1/2	Microglass center wrap barrier (0.3 micron), Cotton sock over Tin-plated steel cage
RF-372	4 1/2	72 1/8	3 1/8	
RF-372-10	4 1/2	72 1/8	3 1/8	10 micron
RF-372CE	4 1/2	72	3 1/8	Closed end with 5/8" center hole*
RF-372KT	4.567	71.125	3.3	
RF-372M	4 1/2	72 1/8	3 1/8	Microglass center wrap barrier (0.3 micron)
RF-372MCE	4 1/2	72	3 1/8	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole
RF-372RCE	4 1/2	72	3 1/8	Tin Plated Steel outer cage, Closed end with 5/8" center hole *
RF-536	5 1/2	36	4 1/2	
RF-536CES	5 1/2	39 1/4	4 1/2	Closed end with 3" spear
RF-536M	5 1/2	36 3/8	4 1/4	Microglass center wrap barrier (0.3 micron)
RF-536MCE	5 1/2	36 3/8	4 1/4	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole
RF-536MPCE	5 1/2	36 3/8	4 1/4	Microglass center wrap barrier (0.3 micron), Closed end with 5/8" center hole, Cotton sock over Tin-plated steel cage
RF-644-10	6	44	3 1/2	10 micron

# ROYAL



## **FILTER MANUFACTURING COMPANY**

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Royal Filter Specializes in quality liquid and air filter products for a wide variety of industrial applications.

### **MADE IN THE USA**

Royal Filter utilizes the latest modern manufacturing techniques and equipment. 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 long term suppliers and continuous improvement training with our employees with an emphasis on quality, we offer a superior product at a competitive price.

Our modern 60,000 square foot manufacturing facility is designed to allow a smooth and efficient flow of products, from incoming raw materials to outgoing shipments of finished products. This helps to ensure prompt, on time deliveries.

Our elements are constructed of the highest quality components. Many different cartridge configurations, media, and materials of construction are available to fit you specific application.

Please visit our website at [www.royalfilter.com](http://www.royalfilter.com)

### **SUPERIOR CUSTOMER SERVICE**

- Toll Free number for technical service or product information: 1-800-256-2559.
- LTL shipments are palletized at no charge
- 99% Efficiency on shipping order(s) per terms of agreement.
- Our central location reduces freight costs and transit time.
- Drop ship to your customers for shorter delivery times and shipping costs.
- Third party freight billing and freight quotes are available at no additional charge.
- Excellent competitor and OEM cross reference information available.
- Special elements can be designed, tested, and manufactured to customer specifications.
- A firm commitment from ROYAL FILTER MANUFACTURING to excellence in product quality, customer service, and price.

For the Royal Filter Distributor nearest you,  
contact:

**Royal Filter Manufacturing Company**  
4327 South Fourth Street  
Chickasha, OK 73018

**Phone:** (405) 224—0229  
**Toll Free:** (800) 256—2559  
**Fax:** (405) 224—9174