



RPE SERIES

Filter: Polyester Filter Bags

The RPE sealing flange provides the best bag-to-housing seal in today's marketplace. During operation as the filter bag gets dirty causing differential pressure to increase, our flared RPE top flange seal improves, providing optimum performance. The integral plastic flange makes installation and disposal easier and there is no metal to worry about.

Polyester offers compatibility with water, animal or vegetable oils, organic solvents, alkalis, oxidizing agents, organic acids, mineral acids as well as micro-organisms. Temperature limitation is 300°F. Choose micron ratings 1 through 200 from high efficiency micro fiber materials or industry standard felt. As an added feature, sonically welded seams are available.

DESIGN DETAILS

RPE bags have a plastic flange sewn or sonically welded into their opening and integral handles as a standard feature. They make removal faster and easier.

Microfiber bags are 95% efficient at 1, 3, 8, and 19 microns. The standard felt is offered in grades 1 to 200 microns. These bags are also available in standard "ring type" bag sizes.

APPLICATIONS

- High Purity Fluids
- Food Products
- Liquors
- Activated Carbon Removal
- Parts Washing
- Edible Oils
- Coolants
- Hydraulic Oil
- Lube Oil



MATERIALS OF CONSTRUCTION

- Filter Media: Polyester
- Finish: Plain or Glazed
- Cover: Spun bound polyester
- Top Seal: Rosedale RPE Flange

SUGGESTED DIFFERENTIAL PRESSURE

- Maximum: 35 PSIG Dirty (2.4 bar)
- Optimum: 10-15 PSIG (0.7-1.0 bar)

MAXIMUM OPERATING TEMPERATURE

- Maximum (Polyester): 300°F (149°C)



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RECOMMENDED MAXIMUM FLOW RATE (FOR LIQUIDS WITH A DYNAMIC VISCOSITY OF 1 MPA•S @ 20°C)

FILTER BAG SIZE	FLOW RATE	DIMENSIONS	SURFACE AREA
1	40 GPM (9.08 M3/HR)	7.2" X 16" (18.28 CM X 40.65 CM)	2.2FT2 (0.20M2)
2	80 GPM (18.16 M3/HR)	7.2" X 32" (18.28 CM X 81.28 CM)	4.4FT2 (0.41M2)
3	10 GPM (2.27 M3/HR)	4.1" X 8" (10.41 CM X 20.32 CM)	0.5FT2 (0.45 M2)
4	20 GPM (454 M3/HR)	4.1" X 14" (10.41 CM X 35.56 CM)	1.0FT2 (0.9M2)
7	25 GPM (5.67 M3/HR)	5.6" X 15" (14.27 CM X 38.10 CM)	1.2FT2 (0.11M2)
8	40 GPM (9.08 M3/HR)	5.6" X 21" (14.27 CM X 53.34 CM)	2.0FT2 (0.20M2)
9	65 GPM (4.0 M3/HR)	5.6" X 32" (14.27 CM X 81.28 CM)	3.4FT2 (0.32M2)
12	100 GPM (22.71 M3/HR)	8.4" X 32" (21.25 CM X 81.28 CM)	5.5FT2 (0.52M2)

EFFICIENCY RATINGS

MICRO-FIBER EFFICIENCY		STANDARD FELT	
MICRON RATING @ EFFICIENCY		NOMINAL RATING	
95%	99%	50%	95%
1, 3, 8, 19	2, 5, 19, 25	1, 5, 10, 25, 50, 100, 200	35, 48, 55, 65, 70, 110, 200

CONFIGURE YOUR PART NUMBER (EXAMPLE: PE-100-G2RPE)

MATERIAL	MICRON RATING	FINISH	SIZE (DIMENSIONS ABOVE)	TOP SEAL	SEAM OPTIONS
PE Polyester	1	G Glazed	1	SS 316 Stainless Steel Snap Ring	NO SYMBOL Sewn Seam
	5		2	RPE Polyester Flange	WE Welded Seam
	10		3		
	25		4		
	50		7		
	100		8		
	200		9		
			12		