PENTAIR

INDUSTRIAL
LIQUID FILTER BAGS

Pentair* Industrial* Liquid Filter Bags offer economical filtration for a wide array of applications. Highly controlled manufacturing procedures ensure consistent quality and no contamination. The unique bag designs provide added strength and avoid risk of bypass. Our filter bags fit all industry-standard bag housings.

FEATURES/BENEFITS

Available medias range from 1-1500 μ

Wide array of silicone-free media fibers to meet needed temperature and micron specifications

Multi-layered filtering capabilities for higher dirt-holding capacities and fewer change-outs

Bag finish or covers available for strict migration requirements

Heavy-duty handle for easy installation and removal

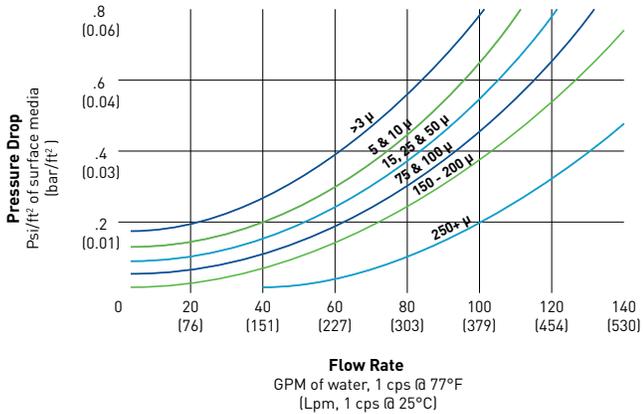OEM replacement ring styles

Customized and specialty bags available

BAG SPECIFICATIONS

PENTAIR HOUSING MODEL	BAG SIZE	LENGTH		DIAMETER		SURFACE AREA	
		IN	MM	IN	MM	FT²	M²
44-6	#3	8	203	4.12	105	.5	0.05
44-12	#4	14	356	4.12	105	1.0	0.09
66-12	#7	15	381	5.62	143	1.3	0.12
66-18	#8	21	533	5.62	143	2.0	0.19
66-30	#9	32	813	5.62	143	3.4	0.31
88-15	#1	16.5	419	7.06	179	2.0	0.19
88-15	#1 inner	14.5	368	5.75	146	1.6	0.15
88-30	#2	32	813	7.06	179	4.4	0.41
88-30	#2 inner	30	762	5.75	146	3.6	0.33
M88-30(OEM)	#12	30	762	8.25	203	5.5	0.51
Multi-Rounds	#2	32	813	7.06	179	4.4	0.41

PRESSURE DROP VS FLOW RATE

The following data is based on 1ft² (0.09 m²) of filtration media.

Divide the differential pressure by the number of media square footage found in the selected bag to get your final rating.

Pressure Drop
Psi/ft² of surface media
(bar/ft²)

.8 (0.06)
.6 (0.04)
.4 (0.03)
.2 (0.01)

>3 μ
5 & 10 μ
15, 25 & 50 μ
75 & 100 μ
150 - 200 μ
250+ μ

0   20 (76)   40 (151)   60 (227)   80 (303)   100 (379)   120 (454)   140 (530)

Flow Rate
GPM of water, 1 cps @ 77°F
(Lpm, 1 cps @ 25°C)

CORRECTION CHART

The following chart is based on 1 centipoise. (CPS)

If your liquid is greater than 1 CPS:

1. Select your liquid's viscosity

2. Determine your correction factor

   EX: If your liquid's viscosity is 100, your correction factor is 8.3

3. Multiply the Bag Selection Guide (left) by your correction factor

VISCOSITY (CPS)	CORRECTION FACTOR
50	4.5
100	8.3
200	16.6
400	27.7
800	50.0
1000	56.2
2000	113.6
4000	161.0
6000	250.0
8000	325.0

MICRON (μ) RATINGS AVAILABLE

FIBER	MICRON RATING																			TEMP
	1	5	10	15	25	50	75	100	125	150	175	200	250	300	400	600	800	1000	1500	
Felt, nomex		•	•		•	•		•												450°F (232.2°C)
Felt, polyester	•	•	•	•	•	•	•	•				•								250°F (121.1°C)
Felt, polypropylene	•	•	•		•	•		•												200°F (93.3°C)
Monofilament mesh, nylon		•			•	•	•	•		•	•	•	•	•	•	•	•			250°F (121.1°C)
Monofilament mesh, polyester		•	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	250°F (121.1°C)
Monofilament mesh, polypropylene													•	•	•	•	•			200°F (93.3°C)
Multifilament mesh, polyester						•	•	•		•	•	•	•		•					250°F (121.1°C)
Oil removal					•															200°F (93.3°C)

ORDERING INFORMATION

To create your ordering part number, use the code abbreviation tables below in conjunction with the part number configurator (next page). *Custom configurations available. Please contact customer service.*

MEDIA		
CODE	DESCRIPTION	AVAILABLE µ
HT	Felt, nomex (nylon)	5, 10, 25, 50, 100
KE	Felt, polyester	1, 5, 10, 25, 50, 75, 100, 200
KEM	Multifilament mesh - polyester	100, 125, 150, 200, 250, 300, 400, 800, 1000, 1500
KES	Felt, polyester, S (fully stitched bag)	1, 5, 10, 15, 25, 50, 75, 100, 200
KEW	Felt, polyester, W (fully welded bag)	1, 5, 10, 15, 25, 50, 75, 100, 200
KO	Felt, polypropylene	1, 5, 10, 25, 50, 100, 200
KOMO	Monofilament mesh, polypropylene	250, 300, 400, 600, 800
KOS	Felt, polypropylene, S (fully stitched bag)	1, 5, 10, 25, 50, 100, 200
KOW	Felt, polypropylene, W (fully welded bag)	1, 5, 10, 25, 50, 100, 200
NMO	Monofilamnet mesh - nylon	5, 25, 50, 75, 100, 150, 175, 200, 250, 300, 400, 600, 800
OR	Oil removal material	25

FINISH (FELT ONLY)	
CODE	DESCRIPTION
K	GLAZED
NG	NO GLAZE (UNGLAZED)
C	SPUNBONDED NYLON COVER
HE	HIGH EFFICIENCY (SIZES #1, #2, #3, & #4 ONLY)
KEM	POLYESTER MULTIFILAMENT MESH COVER, 150 µ
NMO	NYLON MONOFILAMENT MESH COVER, 150 µ
R	SPUNBONDED POLYESTER COVER

SIZE			
CODE	PENTAIR HOUSING MODEL	DESCRIPTION	(DIA. x LENGTH)
1	88-15	Standard #1	7 1/16" x 16 1/2"
2	88-30	Standard #2	7 1/16" x 32"
3	44-6	Standard #3	4 1/8" x 8"
4	44-12	Standard #4	4 1/8" x 14"
7	66-12	Standard #7	5 5/8" x 15"
8	66-18	Standard #8	5 5/8" x 21"
9	66-30	Standard #9	5 5/8" x 32"
12	M88-30(O-EM)	Standard #12	8" x 32"
RK1	-	Ronningen-Petter Fabric Basket #1	8" x 30"
RK2	-	Ronningen-Petter Fabric Basket #2	8" x 40"
CO1	-	Commercial Filters #1	7 5/16" x 17"
CO2	-	Commercial Filters #2	7 5/16" x 33"

RING	
CODE	DESCRIPTION
DS	Draw string
K	FSI style flanged plastic top
KE	FSI style flanged polyester ring (sizes #1 & #2 only)
KO	Polypropylene (not available for sizes #7, #8, #9, & #12)
RT	Raw top
S	Carbon steel
SS	Stainless steel

OPTIONS	
CODE	DESCRIPTION
A	Automotive - bottom and side seams turned to the inside prior to attaching support ring.
DH	Double handle
NH	No handle

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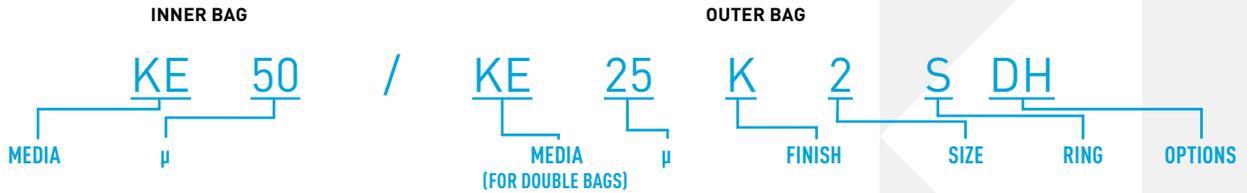
SINGLE BAG EXAMPLE: KE10K2SA

Polyester felt bag (KE), 10-micron rating (10), Glazed finish (K),
Standard #2 size (2), Carbon steel ring (S), Automotive (A)

KE	10	K	2	S	A
MEDIA	μ	FINISH	SIZE	RING	OPTIONS

DOUBLE BAG EXAMPLE: KE50/KE25K2SDH

Inner Bag: Polyester felt (KE), 50-micron rating (10)
Outer Bag: Polyester felt (KE), 25-micron rating (25), Glazed finish (K),
Standard #2 size (2), Carbon steel ring (S), Double handle (DH)

INNER BAG   **OUTER BAG**

KE	50	/	KE	25	K	2	S	DH
MEDIA	μ		MEDIA (FOR DOUBLE BAGS)	μ	FINISH	SIZE	RING	OPTIONS

BAG WITH COVER EXAMPLE: KE50/KEMK2K

Polyester felt bag (KE), 50-micron rating (50), with a 150 micron KEM cover (KEM),
Glazed finish (K), Standard #2 size (2), FSI Style flanged plastic top (K)

KE	50	/	KEM	K	2	K
MEDIA	μ		COVER (FOR FELT BAGS WITH COVERS)	FINISH ON FELT BAG	SIZE	RING

PENTAIR

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