FILTER ELEMENT - OKS

Alternative filter elements for Ksi

DESCRIPTION

OKS filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air(1).

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Filtration grade	Solid particles class	Water class	Oil class
FF5/P	6	/	/
MFO/R	3	/	/
SMA/S	1	/	1
CA/A	1	/	0/1

*Validated according to ISO12500-1 and ISO12500-3

TEHNICAL SPECIFICATION

	FF5/P (5)	MFO/R (5)	SMA/S (5)	CA/A (5)
Operating temperature	65	65	65	65
Operating pressure	/	/	1	0/1
Differential pressure (dry)	10	20	80	60
Differential pressure (wet)	20	40	190	
Particle retention (nominal)	99.99% (3 µm)	99.9999% (1 µm)	99.9999% (0.01 µm)	
Particle retention rate ISO (3)	95%	99.8%	99.998%	
Residual oil content (4)	/	/	< 0.01	< 0.005
Flow direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE

(3) Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 FF5/P, MPPS - (5µm); 06050 MFO/R, , SMA/S, MPPS - (0,3µm)

(4) Tested according to ISO12500-1, 06050 and SMA/S Oil aerosol viscosity 32mm2/s, inlet concentration 10mg/m3

(5) Cross reference Omega Air – Ksi filtration grades: P=FF5/P=FF5, R=MFO/R=MFO, S=SMA/S=SMA, A=CA/A=CA

MATERIALS

	FF5/P	MFO/R	SMA/S	CA/A
Filter media	Acrylic fibres, cellulose	Borosilicate micro fibres	Borosilicate micro fibres	Activated carbon granulate PES (Polyester)
Drainage media	/	Polyester based polyurethane	Polyester based polyurethane	/
Adsorption media	/	/	/	Activated carbon granulate
Protection media	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Support	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Endcaps	Plastic	Plastic	Plastic	Plastic
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Sealing	NBR	NBR	NBR	NBR

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SIZES

Model	Ø [mm]	Height [mm]
OKS 3711	36	73
OKS 5111	48	114
OKS 7111	70	153
OKS 7311	70	302
OKS 7411	70	364
OKS 8501	100	431
OKS 8601	100	502
OKS 8701	160	385
OKS 8901	140	760
OKS 8910	140	760

Ø - Diameter

CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).
CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x Cop

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Cop	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

FF5/P - Replace filter element at least once per year or when pressure drop reaches 350 mbar
MFO/R - Replace filter element at least once per year or when pressure drop reaches 350 mbar
SMA/S - Replace filter element at least once per year or when pressure drop reaches 350 mbar
CA/A - Replace filter element at least every 6 months or when pressure drop reaches 350 mbar

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANEGE WITHOUT NOTICE		
	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285	

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