

FILTER ELEMENT - OSC

Alternative filter elements for Schneider

DESCRIPTION

OSC 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
VP/P	6	/	/
FP/S	1	/	1
AP/A	1	/	0/1

*Validated according to ISO12500-1 and ISO12500-3

TEHNICAL SPECIFICATION

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

(3) Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 VP/P, MPPS - (5µm); 06050 , , FP/S, MPPS - (0,3µm)

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

(5) Cross reference Omega Air – Schneider filtration grades: P=VP/P=VP, S=FP/S=FP, A=AP/A=AP

MATERIALS

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

SIZES

Model	Ø [mm]	Height [mm]
OSC 6	38	73
OSC 10	51	96
OSC 15	51	158
OSC 30	68	140
OSC 45	68	259
OSC 80	77	313

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

- VP/P - Replace filter element at least once per year or when pressure drop reaches 350 mbar
- FP/S - Replace filter element at least once per year or when pressure drop reaches 350 mbar
- AP/A - Replace filter element at least every 6 months or when pressure drop reaches 350 mbar

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