

FILTER ELEMENT - OAT

Alternative filter elements for Ats

DESCRIPTION

OAT 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
P/P	6	/	/
M/R	3	/	/
H/S	1	/	1
C/A	1	/	0/1

*Validated according to ISO12500-1 and ISO12500-3

TEHNICAL SPECIFICATION

	P/P (5)	M/R (5)	H/S (5)	C/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 P/P, MPPS - (5µm); 06050 M/R, , H/S, MPPS - (0,3µm)

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

(5) Cross reference Omega Air – Ats filtration grades: P=P/P=P, R=M/R=M, S=H/S=H, A=C/A=C

MATERIALS

	P/P	M/R	H/S	C/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

SIZES

Model	Ø [mm]	Height [mm]
OAT 34	50	61
OAT 77	50	76
OAT 119	50	110
OAT 170	50	141
OAT 212	76	121
OAT 306	76	151
OAT 451	76	191
OAT 629	76	231
OAT 875	100	342
OAT 1267	100	523
OAT 1800	122	602
OAT 2176	122	652
OAT 2805	122	751

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

- P/P - Replace filter element at least once per year or when pressure drop reaches 350 mbar
M/R - Replace filter element at least once per year or when pressure drop reaches 350 mbar
H/S - Replace filter element at least once per year or when pressure drop reaches 350 mbar
C/A - Replace filter element at least every 6 months or when pressure drop reaches 350 mbar

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