

FILTER ELEMENT - OMA

Alternative filter elements for Mark

DESCRIPTION

OMA 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/R	6	/	/
G/M	2	/	2
C/S	1	/	1
V/A	1	/	0/1

*Validated according to ISO12500-1 and ISO12500-3

TEHNIICAL SPECIFICATION

	P/R (5)	G/M (5)	C/S (5)	V/A (5)
Operating temperature	65	65	65	65
Operating pressure	/	2	1	0/1
Differential pressure (dry)	10	50	80	60
Differential pressure (wet)	20	120	190	
Particle retention (nominal)	99.99% (3 µm)	99.9999% (0.1 µm)	99.9999% (0.01 µm)	
Particle retention rate ISO (3)	95%	99.98%	99.998%	
Residual oil content (4)	/	< 0.1	< 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, MPPS - (5µm); 06050 P/R, G/M, C/S, MPPS - (0,3µm)

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

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

MATERIALS

	P/R	G/M	C/S	V/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]
OMA 7	46	55.5
OMA 15	46	90.5
OMA 21	46	146
OMA 30	61	155
OMA 48	61	195
OMA 84	86	288
OMA 114	86	323
OMA 156	86	367.5
OMA 216	101.5	420
OMA 315	120	509
OMA 405	120	679

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/R - Replace filter element at least once per year or when pressure drop reaches 350 mbar
 G/M - Replace filter element at least once per year or when pressure drop reaches 350 mbar
 C/S - Replace filter element at least once per year or when pressure drop reaches 350 mbar
 V/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