

FILTER ELEMENT – OOM

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

We have designed OOM new filter elements for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air⁽¹⁾. OOM filter elements will fit into OMI filter housings

APPLICATIONS ⁽²⁾

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application



⁽¹⁾ For any other technical gas please contact us or your local dealer

⁽²⁾ OOM filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
QF/P	Class 6	-	-
PF/M	Class 2	-	Class 2
HF/S	Class 1	-	Class 1
CF/A	-	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	QF/P ⁽⁶⁾	PF/M ⁽⁶⁾	HF/S ⁽⁶⁾	CF/A ⁽⁶⁾
Operating temperature		1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	10 mbar 0,290 PSI	50 mbar 0,725 psi	80 mbar 1,160 PSI	60 mbar 0,870 PSI
Differential pressure (wet)	20 mbar 0,290 PSI	120 mbar 1,740 PSI	190 mbar 2,756 PSI	N/A
Particle Retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	N/A
Particle retention rate ISO ⁽³⁾	95 %	99,98 %	99,998 %	N/A
Residual oil content ⁽⁴⁾	N/A	< 0,1mg/m	< 0,01mg/m ³	<0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾		N/A		20 min

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

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

⁽⁵⁾ Tested according to ISO12500-2, 06050 CF/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

⁽⁶⁾ Cross reference Omega Air – OMI filtration grades: P=QF/P=QF, M=PF/M=PF, S=HF/S=HF, A=CF/A=CF

FILTER CARTRIDGE NAMES

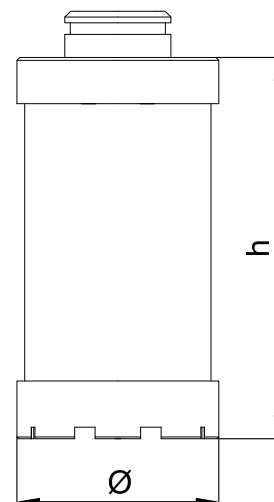
Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size instead of dash.

E.g. OOM 0036 QF/P

SIZES

SIZES	DIMENSIONS [mm]	FLOW CAPACITY	
		[Nm ³ /h]	[scfm]
OOM 0004 _/_/_	Ø=40; h=43	22,7	13,3
OOM 0008 _/_/_	Ø=48; h=64	44,0	25,9
OOM 0016 _/_/_	Ø=48; h=108	83,5	49,2
OOM 0030 _/_/_	Ø=48; h=146	117,6	69,2
OOM 0025 _/_/_	Ø=60; h=114	112,0	65,9
OOM 0036 _/_/_	Ø=60; h=144	146,3	86,1
OOM 0072 _/_/_	Ø=60; h=185	197,7	116,4
OOM 0060 _/_/_	Ø=60; h=224	242,3	142,6
OOM 0070 _/_/_	/	/	/
OOM 0090 _/_/_	Ø=82; h=210	315,2	185,5
OOM 0120 _/_/_	Ø=82; h=312	477,6	281,1
OOM 0190 _/_/_	Ø=82; h=398	614,4	361,7
OOM 0185 _/_/_	Ø=82; h=482	748,2	440,4
OOM 0280 _/_/_	Ø=121; h=484	1019,4	600,0
OOM 0350 _/_/_	Ø=121; h=636	1363,7	802,7
OOM 0440 _/_/_	Ø=121; h=760	1689,1	994,1

Ø=Diameter; h=Height



MATERIALS

	QF	PF	HF	CF
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers		Glass fiber, borosilicate microfibres
Drainage media	Polyester	Polyester based polyurethane		
Adsorption media	/	/	/	Activated carbon granulate PES (Polyester)
Support (inner-outer)			Stainless steel 1.4301	
Bonding			Polyurethane	
Endcaps			PA6 with 30% glass fibers	
Sealing			NBR	

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 C_{OP}


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
C _{OP}	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

Replace filter element grade QF/P, PF/M and HF/S at least once per year or when pressure drop reaches 350mbar, replace filter element grade CF/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285
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