

FILTER ELEMENT – OOM

Alternative filter elements for OMI

Series: QF, PF, HF, CF series

DESCRIPTION

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



FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

Filtration grade	Solid particles class	Water class	Oil class
QF/P	6	/	/
PF/XM	2	/	2
HF/XS	1	/	1
CF/A	1*	/	0/1

Validated according to ISO12500-1, ISO12500-2 and ISO12500-3

* Valid if "XS" filter cartridge is installed upstream

TECHNICAL SPECIFICATION

	QF/P ⁽⁵⁾	PF/XM ⁽⁵⁾	HF/XS ⁽⁵⁾	CF/A ⁽⁵⁾
Operating temperature	1,5 - 65 °C/ 35 - 149 °F	1,5 - 65 °C/ 35 - 149 °F	1,5 - 65 °C/ 35 - 149 °F	1,5 - 45 °C/ 35 - 113 °F
Operating pressure	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi
Differential pressure (dry)	10 mbar/ 0,145 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	/
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 %	99,9994 %	/
Residual oil content ⁽⁴⁾	/	< 0,1mg/m ³	< 0,01mg/m ³	< 0,005mg/m ³
Flow Direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE
Capacity (ISO12500-2) ⁽⁵⁾	/	/	/	20 min

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

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

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

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

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

QF/P, PF/XM, HF/XS - Replace filter element at least once per year or when pressure drop reaches 350mbar

CF/A - Replace filter element at least every 6 months

MATERIALS

	QF/P	PF/XM	HF/XS	CF/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	/	Polyester needle felt	Polyester needle felt	/
Adsorption media	/	/	/	Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers
Sealing	NBR	NBR	NBR	NBR

SIZES

Model	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
OOM 0004	40	43	33	20	F 0004 F 0005
OOM 0008	48	64	70	42	F 0008 F 0010
OOM 0016	48	108	108	65	F 0016 F 0018
OOM 0030	48	146	180	105	F 0030
OOM 0025	60	114	204	120	F 0025 F 0034
OOM 0036	60	144	300	180	F 0036 F 0050
OOM 0072	60	185	432	250	F 0072
OOM 0060	60	224	620	370	F 0060 F 0095
OOM 0070	82	210			F 0070
OOM 0090	82	210	770	450	F 0090 F 0125
OOM 0120	82	312	990	580	F 0120 F 0165
OOM 0190	82	398	1140	670	F 0190
OOM 0185	82	482	1320	780	F 0185 F 0220
OOM 0280	121	484	1680	990	F 0280
OOM 0350	121	636	2100 4200 9300	1235 2800 5400	F 0350 F 0700 (2x) F 1550** (2x)
OOM 0440	121	760	2640	1555	F 0440
OOM 0460	121	760	2760	1620	F 0460
			5700	3300	F 0950 (2x)
			7500	4400	F 1250 (3x)
			9300	5400	F 1550** (2x)
			11000	6500	F 1850 (4x)
			14200	8400	F 2500 (6x)
			19900	11600	F 3000 (8x)
			31000	18400	F 3500 (11x)

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OOM 0004 QF/P).

**This housing contains 2x OOM 0460 and 2x OOM 0350

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015	
--	---	--