

FILTER ELEMENT – OMI

Alternative filter elements for OMI

Series: QF, PF, HF, CF series

DESCRIPTION

These 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	6	/	/
PF	2	/	2
HF	1	/	1
CF	1*	/	0/1

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

* Valid if "HF" filter cartridge is installed upstream

TECHNICAL SPECIFICATION

	QF	PF	HF	CF
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			
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

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, PF, HF- Replace filter element at least once per year or when pressure drop reaches 350mbar CF -
 Replace filter element at least every 6 months

MATERIALS

	QF	PF	HF	CF
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			
Sealing	NBR	NBR	NBR	NBR

SIZES

Model	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
OM 0004	40	43	33	20	F 0004 F 0005
OM 0008	48	64	70	42	F 0008 F 0010
OM 0016	48	108	108	65	F 0016 F 0018
OM 0030	48	146	180	105	F 0030
OM 0025	60	114	204	120	F 0025 F 0034
OM 0036	60	144	300	180	F 0036 F 0050
OM 0072	60	185	432	250	F 0072
OM 0060	60	224	620	370	F 0060 F 0095
OM 0070	82	210			F 0070
OM 0090	82	210	770	450	F 0090 F 0125
OM 0120	82	312	990	580	F 0120 F 0165
OM 0190	82	398	1140	670	F 0190
OM 0185	82	482	1320	780	F 0185 F 0220
OM 0280	121	484	1680	990	F 0280
OM 0350	121	636	2100 4200 9300	1235 2800 5400	F 0350 F 0700 (2x) F 1550** (2x)
OM 0440	121	760	2640	1555	F 0440
OM 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)			



Strength

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- We have more than 2000 global customers.
- We can provide a total filtration solution.

- Filter-Online & Nordic Filtration offers a wide selection of filtration products for Domestic and Industrial Application.

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We distribute many of our products from our stock in Denmark. Some products are shipped from remote stock.



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