FILTER ELEMENT – OFI HT

(Particulate, Particulate + Coalescing, Adsorption-Activated carbon)

DESCRIPTION

OFI filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[(1)].

APPLICATIONS [(2)]

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

[(1)]For any other technical gas please contact us or your local dealer
[(2)]OFI 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
3P/P	Class 6	-	-
10C/R	Class 3	-	-
7C/M	Class 2	-	Class 2
4C/S	Class 1	-	Class 1
A/A	1	-	Class 0/1
WS/?			

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	WS/_[(6)]	**3P/P**[(6)]	**10C/R**[(6)]	**7C/M**[(6)]	**4C/S**[(6)]	**A/A**[(6)]
Operating pressure	0 - 16 bar (g) / 0 - 232 psi					
Operating temperature	1,5 - 120 °C 35 - 248 °F	1,5 - 65 °C 35 - 149 °F	1,5 - 120 °C 35 - 248 °F			1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	/	10 mbar 0,145 psi	20 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	40 mbar 0,580 PSI	120 mbar 1,740 psi	190 mbar 2,756 PSI	/
Particle retention (nominal)	/	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO[(3)]	/	95 %	99,8 %	99,98	99,998 %	/
Residual oil content[(4)]	/	/	/	< 0,1mg/m^3	< 0,01mg/m^3	<0,005mg/m^3
Capacity (ISO12500-2)[(5)]	/	/	/	/		20 min

[(3)] Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 3P/P, MPPS-(5 μm); 06050 10C/R, 7C/M, 4C/S, MPPS-(0,3μm)
[(4)] Tested according to ISO12500-1, 06050 7C/M, 4C/S Oil aerosol viscosity 32mm^2/s, inlet concentration 10mg/m^3
[(5)] Tested according to ISO12500-2, 06050 A/A tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[(6)] Cross reference Omega Air – Parker Finite filtration grades: P=3P/P=3P, R=10C/R=10C, M=7C/M=7C, S=4C/S=4C, A=A/A=A

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SIZES

FILTER ELEMENT SIZE	DIMENSIONS [mm]	FLOW CAPACITY [Nm^3/h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
OFI JAK	Ø=43; h=96	33,1	19,5	¼'' (J_1A), ½'' (J_2A)
OFI JBK	Ø=48; h=202	109,2	64,4	½'' (J_1B), ¾'' (J_2B)
OFI JCK	Ø=57; h=230	203,4	119,9	1 (J_C)
OFI JDK	Ø=86; h=301	456,9	269,3	1 ½'' (J_D)
OFI JEK	Ø=86; h=398	649,2	382,6	2'' (J_E)

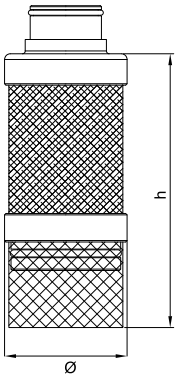
ø=Diameter; h=Height

MATERIALS

	WS/_	3P/P	10C/R	7C/M	4C/S	A/A
Filter media	Stainless Steel 1.4301	Acrylic fibers, cellulose	Borosilicate micro fibers			Glass fiber, borosilicate microfibres
Drainage media	/	Polyester	Polyester			/
Adsorption media	/	/	/	/	/	Activated carbon granulate PES (Polyester)
Support (inner-outer)	Stainless steel 1.4301					
Bonding	Epoxy					
Endcaps	Aluminium					
Sealing	Viton					

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 3P/P, 10C/R, 7C/M and 4C/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element A/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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

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