

# FILTER ELEMENT – OFI old

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

## DESCRIPTION

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

## APPLICATIONS <sup>(2)</sup>

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

<sup>(1)</sup>For any other technical gas please contact us or your local dealer

<sup>(2)</sup>OFI old 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

Validated according to ISO12500-1 and ISO12500-3

## TECHNICAL SPECIFICATION

	3P/P <sup>(6)</sup>	10C/R <sup>(6)</sup>	7C/M <sup>(6)</sup>	4C/S <sup>(6)</sup>	A/A <sup>(6)</sup>
Operating pressure	0 - 16 bar (g) / 0 - 232 psi				
Operating temperature	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 <sup>(3)</sup>	95 %	99,8 %	99,98	99,998 %	/
Residual oil content <sup>(4)</sup>	/	/	< 0,1mg/m <sup>3</sup>	< 0,01mg/m <sup>3</sup>	<0,005mg/m <sup>3</sup>
Capacity (ISO12500-2) <sup>(5)</sup>	/	/	/	/	20 min

<sup>(3)</sup>Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 3P/P, MPPS-(5 µm); 06050 10C/R, 7C/M, 4C/S, MPPS-(0,3 µm)

<sup>(4)</sup>Tested according to ISO12500-1, 06050 7C/M, 4C/S Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>

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

<sup>(6)</sup>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

**SIZES**

FILTER ELEMENT SIZE	DIMENSIONS [mm]	FLOW CAPACITY [Nm <sup>3</sup> /h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
OFI 11-035	Ø=45; h=84	60	102	J2SD, J2SL
OFI 15-070	Ø=62; h=184	150	255	J4NF, J4SF
OFI 23-130	Ø=84; h=337	450	765	J6NH, J6SH

Ø=Diameter; h=Height

**MATERIALS**

	3P/P	10C/R	7C/M	4C/S	A/A
<b>Filter media</b>	Acrylic fibers, cellulose	Borosilicate micro fibers			Glass fiber, borosilicate microfibrs
<b>Drainage media</b>	Polyester	Polyester			/
<b>Adsorption media</b>	/	/	/	/	Activated carbon granulate PES (Polyester)
<b>Support (inner-outer)</b>	Stainless steel 1.4301				
<b>Bonding</b>	Epoxy				
<b>Endcaps</b>	Aluminium				
<b>Sealing</b>	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<sub>OP</sub>

**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 <sub>OP</sub>	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**

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