FILTER ELEMENT – OCP

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OCP filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air [1]. OCP filter elements have been designed to fit into Chicago pneumatic 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] OCP 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
P/R	Class 3	-	Class 3
G/M	Class 2	-	Class 2
C/S	Class 1	-	Class 1
V/A	-	-	Class 0/1

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

TECHNICAL SPECIFICATION

Filtration grade name	P/R [6]	G/M [6]	C/S [6]	V/A [6]
Operating temperature		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)	20 mbar 0,290 psi	50 mbar / 0,725 psi	80 mbar 1,160 psi	60 mbar 0,870 psi
Differential pressure (wet)	40 mbar 0,580 psi	120 mbar / 1,740 psi	190 mbar 2,756 psi	N/A
Particle retention (nominal)	99,9999 % (1 µm)	99,9999 % (0,1 µm)	99,9999 % (0,01 µm)	N/A
Particle retention rate ISO [3]	99,8 %	99,98 %	99,998 %	N/A
Residual oil content [4]	< 0,5mg/m^3	< 0,1mg/m^3	< 0,01mg/m^3	< 0,005mg/m3
Capacity (ISO12500-2) [5]	N/A	N/A	N/A	20 min

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

FILTER CARTRIDGE NAMES

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

E.g. OCP 7 P/R

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SIZES

PLASTIC END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]
OCP 45 _/_	Ø=46; h=56	43	25
OCP 90 _/_	Ø=46; h=91	90	53
OCP 125 _/_	Ø=46; h=146	126	74
OCP 180 _/_	Ø=61; h=155	180	106
OCP 290 _/_	Ø=61; h=195	288	170
OCP 505 _/_	Ø=86; h=288	504	297
OCP 685 _/_	Ø=86; h=323	684	403
OCP 935 _/_	Ø=;86 h=368	936	551
OCP 1295 _/_	Ø=102; h=420	1296	763
OCP 1890 _/_	Ø=120; h=509	1890	1112
OCP 2430 _/_	Ø=120; h=679	2430	1430

ø=Diameter; h=Height

MATERIALS

	P/R	G/M	C/S	V/A
Filter media	Borosilicate micro fibres			Glass fibre, borosilicate microfibres
Adsorption media	/			Activated carbon granulate PES (Polyester)
Drainage media	Polyester based polyurethane			/
Protection media	Polyester fleece			
Support (inner-outer)	Stainless steel 1.4301			
Bonding	Polyurethane			
Endcaps	PA6 with 30% glass fibres or aluminium			
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 P/R, G/M and C/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade V/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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