

FILTER ELEMENT – OCOE

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OCOE 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
- Plastics
- Paint
- General industrial application

⁽¹⁾ For any other technical gas please contact us or your local dealer

⁽²⁾ OCOE 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
B+E/R	Class 3	-	-
C+F/S	Class 1	-	Class 1
D/A	Class 1	-	Class 0/1

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

TECHNICAL SPECIFICATION

Filtration grade name	B+E/R	C+F/S	D/A
Operating temperature	1,5 - 65 °C 35 - 149 °F	1,5 - 65 °C 35 - 149 °F	1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	20 mbar 0,290 psi	80 mbar 1,160 psi	60 mbar 0,870 psi
Differential pressure (wet)	40 mbar 0,580 PSI	190 mbar 2,756 PSI	/
Particle retention (nominal)	99,9999%(1 µm)	99,9999%(0,01 µm)	/
Particle retention rate ISO ⁽³⁾	99,8%	99,998%	/
Residual oil content ⁽⁴⁾	/	/	< 0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾	/	/	20 min

⁽³⁾ Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 B+E/R, C+FS, MPPS-(0,3µm)

⁽⁴⁾ Tested according to ISO12500-1, 06050 B+E/R, C+F/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³

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

⁽⁶⁾ Cross reference Omega Air – Compar filtration grades: R=B+E/R= B+E, S=C+F/S= C+F, A=D/A=D

FILTER CARTRIDGE NAMES

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

E.g. OCOE 0036 B+E/R

SIZES

PLASTIC END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm ³ /h]	FLOW CAPACITY [scfm]
OCOE 0006 _+/_	Ø=36,5; h=70,0	36	21
OCOE 0012 _+/_	Ø=48,0; h=91,1	72	42
OCOE 0018 _+/_	Ø=48,0; h=111,0	108	64
OCOE 0036 _+/_	Ø=68,0; h=131,0	216	127
OCOE 0066 _+/_	Ø=68,0; h=220,0	396	233
OCOE 0096 _+/_	Ø=90,0; h=268,0	576	339
OCOE 0132 _+/_	Ø=90,0; h=305,0	792	466
OCOE 0198 _+/_	Ø=90,0; h=358,0	1188	699
OCOE 0258 _+/_	Ø=108,0; h=458,0	1548	911
OCOE 0372 _+/_	Ø=108; h=648	2232	1314
OCOE 0600F _+/_	Ø=86; h=635	3600	2119
OCOE 0258F _+/_	Ø=114; h=415	1548	911
OCOE 0372F _+/_	Ø=114; h=365	2232	1314

Ø=Diameter; h=Height

MATERIALS

	B+E/R	C+F/S	D/A
Filter media	Borosilicate micro fibers		Glass fiber, borosilicate microfibrs
Adsorption media	Activated carbon granulate PES (Polyester)		
Drainage media	Polyester based polyurethane		
Support (inner-outer)	Stainless Steel 1.4301		
Bonding	Polyurethane		
Endcaps	PA6 with 30% glass fibers		
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 B+E/R and C+F/S at least once per year or when pressure drop reaches 350mbar.

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

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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