

FILTER ELEMENT – OCO

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OCO 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⁾OCO 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/R	Class 3	-	-
C/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/R	C/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⁾		< 0,01mg/m ³	< 0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾			20 min

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

⁽⁴⁾Tested according to ISO12500-1, 06050 B/R,C/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/R = B,S= C/S = C, 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 dashes.

E.g. OCO 0036 B/R

SIZES

PLASTIC END CAPS	DIMENSIONS [mm]
OCO 0005 _/_	Ø=36,50; h=67,00
OCO 0010 _/_	Ø=50,50; h=81,00
OCO 0018 _/_	Ø=50,50; h=118,0
OCO 0036 _/_	Ø=72,00; h=161,0
OCO 0048 _/_	Ø=72,00; h=260,0
OCO 0132 _/_	Ø=86,00; h=330,0
OCO 0198 _/_	Ø=86,00; h=609,00
OCO 0258 _/_	Ø=114,00; h=416,00
OCO 0372 _/_	Ø=114,00; h=609,50

Ø=Diameter; h=Height

MATERIALS

	B/R	C/S	D/A
Filter media	Borosilicate micro fibers		Glass fiber, borosilicate microfibres
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 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 B/R and C/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

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