FILTER ELEMENT – OBO [new]

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

We have designed OBO new filter elements for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air [(1)].
OBO filter elements will fit into BOGE 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)] OBO new 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	-	-
M/S	Class 1	-	Class 1
A/A	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	P/R [(6)]	M/S [(6)]	A/A [(6)]
Operating temperature	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 % (0,01µm)	/
Particle retention Rate ISO [(3)]	99,8 %	99,9994 %	/
Residual oil Content [(4)]	/	< 0,01mg/m 3	<0,005mg/m3
Capacity (ISO12500-2) [(5)]	/		20 min

[(3)] Tested according to ISO12500-3, 1bar(a), nominal flow,06050 V/R, M/S, MPPS-(0,3µm)
[(4)] Tested according to ISO12500-1, 06050 M/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³
[(5)] Tested according to ISO12500-2, 06050 A/A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[(6)] Cross reference Omega Air – Boge filtration grades R=P/R=P, S=M/S=M, A=A/A=A

FILTER CARTRIDGE NAMES

Filter cartridge names consist of cartridge size and filtration grade.

Example: “OBO F6 M/S.

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SIZES

SIZES	DIMENSIONS [mm]	FLOW CAPACITY		FITS INTO FILTER HOUSING
		[Nm³/h]	[scfm]	
OBO F6 _/_	Ø=36,5; h=70	36	21	F 6
OBO F9 _/_	Ø=48; h=91	55	32	F 9
OBO F12 _/_	Ø=48; h=91	72	42	F 12
OBO F18 _/_	Ø=48; h=111	108	64	F 18
OBO F36 _/_	Ø=68; h=131	216	127	F 36
OBO F65 _/_	Ø=68; h=220	396	233	F 65
OBO F95 _/_	Ø=90; h=268	576	339	F 95
OBO F130 _/_	Ø=90; h=305	792	466	F 130
OBO F190 _/_	Ø=90; h=358	1188	699	F 190
OBO F260 _/_	Ø=108; h=458	1548	911	F 260
OBO F380 _/_	Ø=108; h=648	2232	1314	F 380

ø=Diameter; h=Height

MATERIALS

	P/R	M/S	A/A
Filter media	Borosilicate micro fibers		Glass fiber, borosilicate microfibres
Drainage media	Polyester based polyurethane		/
Adsorption media			Activated carbon granulate PES (Polyester)
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 P/R and M/S at least once per year or when pressure drop reaches 350mbar. Replace filter element grade 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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