FILTER ELEMENT – OSP

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OSP 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] OSP 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/SF	Class 6	-	-
R/PF	Class 3	-	-
S/HF	Class 1	-	Class 1
A/CF	Class 1	-	Class 0/1

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

TECHNICAL SPECIFICATION

Filtration grade name	P/SF	R/PF	S/HF	A/CF
Operating temperature	1,5 - 65 °C 35 - 149 °F	1,5 - 65 °C 35 - 149 °F	1,5 - 65 °C 35 - 149 °F	1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	10 mbar 0,145 psi	20 mbar 0,290 psi	80 mbar 1,160 psi	60 mbar 0,870 psi
Differential pressure (wet)	20 mbar 0,290 PSI	40 mbar 0,580 PSI	190 mbar 2,756 PSI	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO[3]	95 %	99,8 %	99,998 %	/
Residual oil content[4]			< 0,01mg/m³	< 0,005mg/m3
Capacity (ISO12500-2)[5]				20 min

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

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. OSP 02 P/SF

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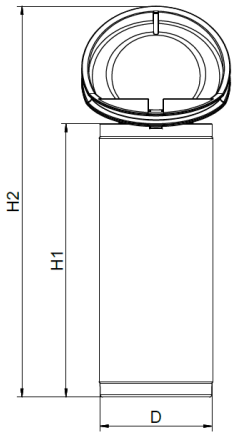
SIZES

MODEL	DIMENSIONS [mm]		
	D	H1	H2
OSP 02	48	62	104
OSP 03	48	62	104
OSP 04	48	107	149
OSP 06	62	85	135
OSP 07	62	112	162
OSP 08	62	176	226
OSP 10	95	135	234
OSP 11	95	231	330
OSP 12	95	366	465
OSP 13	120	303	422
OSP 14	120	403	522
OSP 15	108	493	612
OSP 16	108	582	701
OSP 17	95	852	971



ø=Diameter; h=Height

MATERIALS

	P/SF	R/PF	S/HF	A/CF
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers		Glass fiber, borosilicate microfibres
Adsorption media	/			Activated carbon granulate PES (Polyester)
Drainage media	Polyester	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 P/SF, R/PF and S/HF at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade A/CF 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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