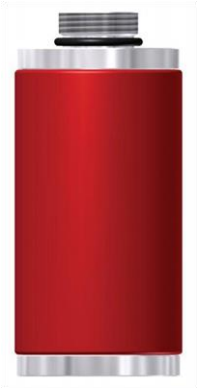
FILTER ELEMENT - OOR

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

OOR filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[1]. OOR filter elements are designed to fit into Orion 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] OOR 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
DSF/P	Class 3	-	-
LSF/R	Class 2	-	Class 2
MSF/S	Class 1	-	Class 1
KSF/A	Class 1	-	Class 1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	DSF/P [6]	LSF/R [6]	MSF/S [6]	KSF/A [6]
Operating temperature		1,5 - 65 °C/ 35 - 149 °F		1,5 - 45°C/ 35 - 113 °F
Differential pressure (dry)	10 mbar/ 0,145 psi	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	20 mbar/ 0,290 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	N/A
Particle retention (nominal)	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,01 µm)	N/A
Particle retention rate ISO [3]	95 %	99,98 %	99,9994 %	N/A
Residual oil content [4]	N/A	< 0,1mg/m^3	< 0,01mg/m^3	< 0,005mg/m^3
Capacity (ISO12500-2) [5]	N/A	N/A	N/A	20 min

[3] Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 DSF/P, MPPS-(5 μm); 06050 LSF/R, MSF/S, MPPS-(0,3μm)
[4] Tested according to ISO12500-1, 06050 MSF/S Oil aerosol viscosity 32mm^2/s, inlet concentration 10mg/m^3
[5] Tested according to ISO12500-2, 06050 KSF/A tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[6] Cross reference Angstrom – Orion filtration grades: P=DSF/P=DSF, R=LSF/R=LSF, S=MSF/S=MSF, A=KSF/A=KSF

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SIZES

ALUMINIUM END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
OOR 75 _/_ Al	Ø=58; h=42	21	12	75B
OOR 150 _/_ Al	Ø=58; h=97	72	42	150B
OOR 200 _/_ Al	Ø=68; h=95	108	64	200B
OOR 250 _/_ Al	Ø=68; h=137	162	95	250B
OOR 400 _/_ Al	Ø=86; h=123	234	138	400-1
OOR 700 _/_ Al	Ø=86; h=190	396	233	700-1
OOR 1000 _/_ Al	Ø=86; h=297	636	374	1000-1
OOR 1300 _/_ Al	Ø=86; h=377	828	487	1300-1
OOR 2000 _/_ Al	Ø=86; h=534	1200	706	2000-1
2xOOR 1300 _/_ AL		1656	975	2700C
2xOOR 2000 _/_ AL		1920, 2400	1130, 1412	3200C, 4000C
3xOOR 2000 _/_ AL		3000, 3600	1765, 2118	5000B, 6000B
4xOOR 2000 _/_ AL		4668	2747	7700B
6xOOR 2000 _/_ AL		6222	3662	10300B
7xOOR 2000 _/_ AL		7782	4580	12900B
9xOOR 2000 _/_ AL		9336	5495	15500B
12xOOR 2000 _/_ AL		12450	7328	20700B
18xOOR 2000 _/_ AL		19134	11262	31800B

ø=Diameter; h=Height

MATERIALS

	DSF/P	LSF/R MSF/S	KSF/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Glass fibre, borosilicate microfibers
Support media	Polyester	/	
Drainage media	/	Polyurethane	/
Adsorption media	/	/	Activated carbon granulate PES (Polyester)
Support (inner-outer)		Stainless steel 1.4301	
Bonding		Polyurethane	
Endcaps		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 DSF/P, LSF/R and MSF/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade KSF/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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