FILTER ELEMENT – ODO Silicon Free

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

ODO SF filter elements are intended for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[(1)] in applications, where silicon and grease free operation is required.

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)]DONALDSON 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
PEP/P	Class 6	-	-
FFP/M	Class 2	-	Class 2
MFP			
SMFP/S	Class 1	-	Class 1
AKP/A	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	PEP/P [(6)]	FFP/M [(6)]	MFP[(6)]	SMFP/S [(6)]	AKP/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	50 mbar 0,725 psi	80 mbar 1,160 psi	60 mbar
Differential pressure (wet)	20 mbar 0,290 PSI	120 mbar 1,740 PSI	120 mbar 1,740 PSI	190 mbar 2,756 PSI	N/A
Particle Retention (nominal)	99,99% (3 µm)	99,9999% (0,1µm)	99,9999% (0,1µm)	99,9999% (0,01µm)	N/A
Particle retention rate ISO(3)	95 %	99,98 %	99,98 %	99,998 %	N/A
Residual oil content(4)	N/A	< 0,1mg/m 3	< 0,01mg/m3	< 0,01mg/m 3	<0,005mg/m3
Capacity (ISO12500-2)(5)		N/A			20 min

[(3)]Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 P, MPPS-(5μm) ; 06050 R,M,S, MPPS-(0,3μm)
[(4)]Tested according to ISO12500-1, 06050 M and S Oil aerosol viscosity 32mm^2/s, inlet concentration 10mg/m^3
[(5)]Tested according to ISO12500-2, 06050 A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation
[(6)]Cross reference Omega Air – Donaldson filtration grades: P=PEP/P=PEP, M=FFP/M=FFP, S=SMFP/S=SMF, A=AKP/A=AKP

FILTER CARTRIDGE NAMES

Filter cartridge names consist of cartridge size and filtration grade. Example:

ODO 0205 SMFP.

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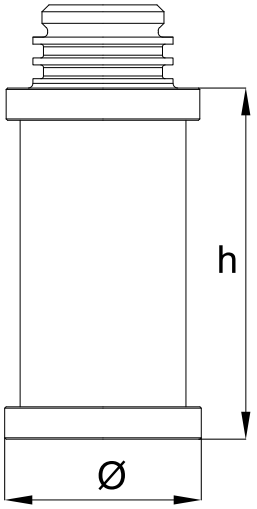
SIZES

SIZES	DIMENSIONS [mm]	FLOW CAPACITY [Nm³/h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
ODO 0205 _ _ _	Ø=35;h=62	20-40	12-24	0002
ODO 0305 _ _ _	Ø=35;h=76	40-60	24-35	0004
ODO 0310 _ _ _	Ø=42;h=76	60-90	35-53	0006
ODO 0410 _ _ _	Ø=42;h=104	90-120	53-71	0009
ODO 0420 _ _ _	Ø=52;h=104	120-180	71-106	0012
ODO 0520 _ _ _	Ø=52;h=128	180-270	106-159	0018
ODO 0525 _ _ _	Ø=62;h=128	270-360	159-212	0027
ODO 0725 _ _ _	Ø=62;h=180	360-480	212-282	0036
ODO 0730 _ _ _	Ø=86;h=180	480-720	282-423	0048
ODO 1030 _ _ _	Ø=86;h=254	720-1080	423-635	0072
ODO 1530 _ _ _	Ø=86;h=381	1080-1440	635-847	0108
ODO 2030 _ _ _	Ø=86;h=508	1440-1920	847-1129	0144
ODO 3030 _ _ _	Ø=86;h=760	1920-2880	1129-1693	0192
ODO 3050 _ _ _	Ø=140;h=760	2880-4320	1693-2540	0288



ø=Diameter; h=Height, *For plastic endcaps leave empty.

MATERIALS

	PEP/P	FFP/M	MFP	SMFP/S	AKP/A
Filter media	Acrylic fibers, cellulose		Borosilicate micro fibers		Glass fiber, borosilicate microfibres
Drainage media	Polyester		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 **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 PEP/P, FFP/M and SMFP/S at least once per year or when pressure drop reaches 350mbar.

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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