FILTER ELEMENT - ODO

Alternative filter elements for Donaldson

DESCRIPTION

ODO filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air(1).

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Filtration grade	Solid particles class	Water class	Oil class
P-SRF/P-SRF	1	/	/
P-BE/P-BE	1	/	/
SRF/SRF	/	/	/

*Validated according to ISO12500-1 and ISO12500-3

TEHNICAL SPECIFICATION

	P-SRF/P-SRF (5)	P-BE/P-BE (5)	SRF/SRF (5)
Operating temperature	150	150	150
Operating pressure	/	/	/
Differential pressure (dry)	80	80	80
Differential pressure (wet)	190	190	
Particle retention (nominal)	99.9999% (0.01 µm)	99.9999% (0.01 µm)	
Particle retention rate ISO (3)	99.998%	99.998%	
Residual oil content (4)	< 0.01	< 0.01	
Flow direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE

(3) Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 , MPPS - (5µm); 06050 , , , MPPS - (0,3µm)

(4) Tested according to ISO12500-1, 06050 and Oil aerosol viscosity 32mm2/s, inlet concentration 10mg/m3

(5) Cross reference Omega Air – Donaldson filtration grades: P-SRF=P-SRF/P-SRF=P-SRF, P-BE=P-BE/P-BE=P-BE, SRF=SRF/SRF=SRF

MATERIALS

	P-SRF/P-SRF	P-BE/P-BE	SRF/SRF
Filter media	Borosilicate micro fibres	Borosilicate micro fibres	Borosilicate micro fibres
Drainage media	/	/	/
Adsorption media	/	/	/
Protection media	Nomex	Nomex	Nomex
Support	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Endcaps	Stainless steel	Stainless steel	Stainless steel
Bonding	Silicone	Silicone	Silicone
Sealing	Silicone	Silicone	Silicone

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SIZES

Model	Ø [mm]	Height [mm]
ODO 0210	42	62
ODO 0310	42	76
ODO 0410	42	104
ODO 0420	52	104
ODO 0520	52	128
ODO 0525	62	128
ODO 0725	62	180
ODO 0530	86	128
ODO 0730	86	180
ODO 1030	86	254
ODO 1530	86	381
ODO 2030	86	508
ODO 3030	86	760
ODO 3050	140	760
ODO 031	42	76
ODO 031.5	50	76
ODO 041.5	50	111
ODO 042.5	62	104
ODO 052.5	62	128
ODO 053	86	127
ODO 103	86	254
ODO 153	86	381
ODO 203	86	508
ODO 303	86	760
ODO 305	140	760

Ø - Diameter

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 Cop

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
Cop	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

P-SRF/P-SRF	-	Replace filter element in 12 months or if pressure drop reaches 600 mbar or when prescribed number of sterilisation cycles is reached.
P-BE/P-BE	-	Replace filter element in 12 months or if pressure drop reaches 600 mbar or when prescribed number of sterilisation cycles is reached.
SRF/SRF	-	Replace filter element in 12 months or if pressure drop reaches 600 mbar or when prescribed number of sterilisation cycles is reached.

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

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