FILTER ELEMENT - 3003104125 - 3003104025

Alternative filter elements for Zander

Series: G-series

DESCRIPTION

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

FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

Filtration grade	Solid particles class	Water class	Oil class
V/P	6	/	/
Z/R	3	/	/
Y/M	2	/	2
X/S	1	/	1
A/A	1*	/	0/1

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

* Valid if "S" filter cartridge is installed upstream

TECHNICAL SPECIFICATION

	V/P[6]	Z/R[6]	Y/M[6]	X/S[6]	A/A[6]
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 - 65 °C/ 35 - 149 °F	1,5 - 45 °C/ 35 - 113 °F
Operating pressure	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi	0 - 16 barg/ 0 - 232 psi
Differential pressure (dry)	10 mbar/ 0,145 psi	20 mbar/ 0,290 psi	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	20 mbar/ 0,290 psi	40 mbar/ 0,580 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO[3]	95 %	99,8 %	99,98 %	99,9994 %	/
Residual oil content[4]	/	/	< 0,1mg/m³	< 0,01mg/m³	< 0,005mg/m³
Flow Direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE
Capacity (ISO12500-2)[5]	/	/	/	/	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, S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³

[5]Tested according to ISO12500-2, 06050 A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

[6]Cross reference Omega Air – Zander filtration grades: P=V/P, R=Z/R, M=Y/M, S=X/S, A=A/A

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

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MATERIALS

	V/P	Z/R	Y/M	X/S	A/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	/	Polyester based polyurethane	Polyester based polyurethane	Polyester based polyurethane	/
Adsorption media	/	/	/	/	Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers or aluminium	PA6 with 30% glass fibers or aluminium	PA6 with 30% glass fibers or aluminium	PA6 with 30% glass fibers or aluminium	PA6 with 30% glass fibers or aluminium
Sealing	NBR	NBR	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm^3/h]	Flow Capacity [scfm]	Fits into filter housing
OZA 1030	42	53	30	18	G 2
OZA 1050	51	59	50	29	G 3
OZA 1070	51	75	70	41	G 5
OZA 1140	51	144	100	59	G 7
OZA 2010	75	118	180	106	G 9
OZA 2020	75	218	300	177	G 11
OZA 2030	75	318	470	277	G 12
OZA 2050	75	508	700	412	G 13
OZA 3050	92	506	940	553	G 14
OZA 3075	92	760	1450	853	G 17
OZA 5060	140	605	1940	1142	G 18
OZA 5075	140	755	2400	1413	G 19

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OZA 1030 V/P). There is an option for **aluminum endcaps** (e.g. OZA 1030 V/P Al).

MAINTENANCE

V/P, Z/R, Y/M, X/S - Replace filter element at least once per year or when pressure drop reaches 350mbar

A/A - Replace filter element at least every 6 months