

FILTER ELEMENT – OZA GL

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

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

OZA GL filter elements are designed to fit into Zander 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⁾ OZA GL 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
VL/P	Class 6	-	-
ZL/R	Class 3	-	Class 3
XL/S	Class 1	-	Class 1
A/A	-	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	VL/P ⁽⁶⁾	ZL/R ⁽⁶⁾	XL/S ⁽⁶⁾	A/A ⁽⁶⁾
Operating temperature		1,5 - 65 °C/ 35 - 149 °F		1,5 - 45 °C/ 35 - 113 °F
Operating pressure			0 - 16 barg/ 0 - 232 psi	
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	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 %	99,8 %	99,9994 %	N/A
Residual oil content ⁽⁴⁾	N/A	< 0,5mg/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 VL/P, MPPS-(5 µm); 06050 ZL/R, XL/S, MPPS-(0,3µm)

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

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

⁽⁶⁾ Cross reference Omega Air – Zander filtration grades: P=VL/P=VL, R=ZL/R=ZL, S=XL/S=XL, A=A/A=A

SIZES

FILTER ELEMENT SIZE	DIMENSIONS [mm]	FLOW CAPACITY [Nm ³ /h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
GL 1008	Ø=36,5; h=70	36	21	GL2
GL 2010	Ø=48; h=91	72	42	GL3, GL5
GL 2020	Ø=48; h=111	108	64	GL7
GL 3025	Ø=68; h=131	216	127	GL9
GL 3040	Ø=68; h=220	396	233	GL11
GL 4040	Ø=90; h=268	576	339	GL12
GL 4050	Ø=90; h=305	792	466	GL13
GL 4065	Ø=90; h=358	1188	699	GL14
GL 5065	Ø=108; h=458	1548	911	GL17
GL 5080	Ø=108; h=648	2232	1314	GL19

Ø=Diameter; h=Height

MATERIALS

	VL/P	ZL/R	XL/S	A/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Glass fibre, borosilicate microfibers
Support media	Polyester	Polyester	Polyester	Polyester
Drainage media	Polyurethane	Polyurethane	Polyurethane	/
Adsorption media	/	/	/	Activated carbon granulate PES (Polyester)
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 VL/P, ZL/R, XL/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade A/A at least every 6 months.

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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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