

FILTER ELEMENT – OAT

Alternative filter elements for ATS

Series: Gold series FGO

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
EP	6	/	/
EM	3	/	/
EH	1	/	1
EC	1*	/	0/1

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

TECHNICAL SPECIFICATION

	EP	EM	EH	EC
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 - 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	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	95 %	99,8 %	99,9994 %	/
Residual oil content ⁽⁴⁾	/	/	< 0,01mg/m ³	< 0,005mg/m ³
Flow Direction	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, S, MPPS-(0,3µm)

⁽⁴⁾Tested according to ISO12500-1, 06050 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

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

MATERIALS

	EP	EM	EH	EC
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	/	Polyester needle felt	Polyester needle felt	/
Adsorption media	/	/	/	Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	Aluminium	Aluminium	Aluminium	Aluminium
Sealing	NBR	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
AT 34	50	61	34	20	FGO 34
AT 77	50	76	77	45	FGO 77
AT 119	50	110	119	70	FGO 119
AT 170	50	141	170	100	FGO 170
AT 212	76	121	212	125	FGO 212
AT 306	76	151	306	180	FGO 306
AT 451	76	191	451	265	FGO 451
AT 629	76	231	629	370	FGO 629
AT 875	100	342	875	515	FGO 875
AT 934	100	342	934	550	FGO 934
AT 1267	100	523	1267	745	FGO 1267
AT 1325	100	523	1325	780	FGO 1325
AT 1800	122	602	1800	1059	FGO 1800
AT 2176	122	652	2176	1261	FGO 2176
AT 2805	122	751	2805	1651	FGO 2805

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. AT 34 EP AI).

MAINTENANCE

EP, EM, EH - Replace filter element at least once per year or when pressure drop reaches 350mbar

EC - Replace filter element at least every 6 months



Strength

- We export to almost 100 countries.
- We have more than 2000 global customers.
- We can provide a total filtration solution.

- Filter-Online & Nordic Filtration offers a wide selection of filtration products for Domestic and Industrial Application.

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