FILTER ELEMENT – XR

Series: AF and AAF Series

(Particulate)

DESCRIPTION

XR grade filter elements have been specifically developed for high efficient removal of solid particles and bulk liquid from compressed air[(1)]. This type of filter is generally used as pre-filter for coalescing filter or dust removal filter after desiccant dryers or activated carbon towers.

[(1)]For any other technical gas please contact us or your local dealer

FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

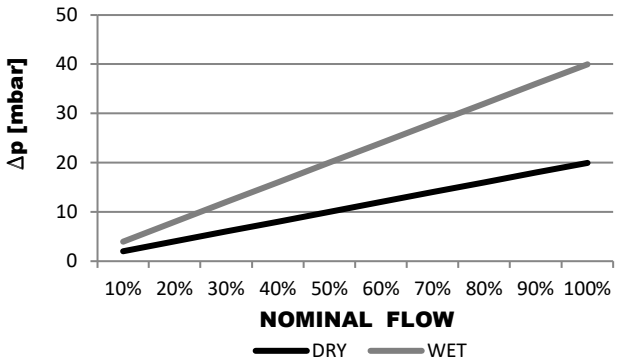
Solid particles class	Water class	Oil class
3	/	/

Validated according to ISO12500-3

TECHNICAL SPECIFICATION

Operating temperature	1,5 - 65 °C / 35 - 149 °F
Operating pressure	0 - 16 barg / 0 - 232 psi
Differential pressure (dry)	20 mbar / 0,290 psi
Differential pressure (wet)	40 mbar / 0,580 psi
Particle retention (nominal)	99,9999% (1 µm)
Particle retention rate ISO[(3)]	99,8 %
Residual oil content[(4)]	/
Flow Direction	INSIDE to OUTSIDE
Capacity (ISO12500-2)[(5)]	/

[(3)]Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 R, Most penetrating particle size MPPS 0,3μm



MATERIALS

Filter media	Borosilicate micro fibers
Protection media	Polyester fleece
Drainage media	Needle felt
Adsorption media	/
Support (inner-outer)	Stainless steel 1.4301
Bonding	Polyurethane
Endcaps	PA6 with 30% glass fibers or aluminium
Sealing	NBR

Omega Air d.o.o. Ljubljana
Cesta Dolomitskega odreda 10
1000 Ljubljana, Slovenia

Tel: +386 (01) 200 68 00
Fax: +386 (01) 200 68 50

e-mail: info@omega-air.si
www.omega-air.si

SIZES

Model	Diameter [mm]	Height [mm]	Flow Capacity [Nm^3/h]	Flow Capacity [scfm]	Fits into filter housing
03528 XR	28	35	10	6	AAF 0006
05528 XR	28	55	18	11	AAF 0016
03844 XR	44	38	25	15	AAF 0026
03844 XR	44	38	30	18	AAF 0036
06050 XR	51	60	35	22	AAF 0046
06050 XR	51	60	60	35	AF & AAF 0056
07050 XR	51	70	78	46	AF & AAF 0076
14050 XR	51	140	120	70	AF & AAF 0106
12075 XR	75	125	198	116	AF & AAF 0186
22075 XR	75	225	335	197	AF & AAF 0306
32075 XR	75	325	510	300	AF & AAF 0476
50075 XR	75	505	780	459	AF & AAF 0706
51090 XR	90	510	1000	588	AF 0946
76090 XR	90	760	1500	882	AF 1506
76090 XR	90	760	1680	990	AF 1756
51140 XR	140	510	2160	1270	AF 2006
75140 XR	140	750	2760	1620	AF 2406

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 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 9001:2015	

Omega Air d.o.o. Ljubljana
Cesta Dolomitskega odreda 10
1000 Ljubljana, Slovenia

Tel: +386 (01) 200 68 00
Fax: +386 (01) 200 68 50

e-mail: info@omega-air.si
www.omega-air.si