

FILTER ELEMENT – WALKER

Alternative filter elements for Walker

Series: Old

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
X5	6	/	/
X1	2	/	2
XA	1	/	1
AC	1*	/	0/1

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

TECHNICAL SPECIFICATION

	X5	X1	XA	AC
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	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	20 mbar/ 0,290 psi	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	95 %	99,98 %	99,9994 %	/
Residual oil content ⁽⁴⁾	/	< 0,1mg/m ³	< 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 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

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

	X5	X1	XA	AC
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
WA E361	43	73	35	20	A20
WA E371	43	73	56	33	A30
WA E381	38	117	25; 50	15; 30	D20/D30
WA E511	54,5	113	112	66	A55
WA E711	72	150	216	127	A76
WA E811	83	149	250	147	A105
WA E731	72	300	300	176	A106
WA E821	83	300	540	318	A126
WA E831	83	301	725; 800	427; 470	A153/A203
WA E851	83	500	1150	675	A205
WA E1251	130	497	1620	954	A250/A305
WA E1261	130	615	2210	1301	A306
WA E1281	130	763	2600	1531	A308
WA E139	130	766	2160	1270	A391
WA E88	83	790	3100	1824	A483
			4250	2500	A484
			6500	3824	A686
			8720	5130	A688
			11000	6470	A8810
			17000	10000	A10816
			25000	15000	A12824

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. WA E361 X5 A1).

MAINTENANCE

X5, X1, XA - Replace filter element at least once per year or when pressure drop reaches 350mbar

AC - Replace filter element at least every 6 months



Strength

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