

FILTER ELEMENT – PREVOST

Alternative filter elements for Prevost

Series: MAM, MAS, MAC

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
M	3	/	/
S	1	/	1
C	1*	/	0/1

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

TECHNICAL SPECIFICATION

	M	S	C
Operating temperature	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
Differential pressure (dry)	20 mbar/ 0,290 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	40 mbar/ 0,580 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,9999% (1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	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
Capacity (ISO12500-2) ⁽⁵⁾	/	/	20 min

⁽³⁾Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 M, 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

⁽⁶⁾

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

M S- Replace filter element at least once per year or when pressure drop reaches 350mbar

C - Replace filter element at least every 6 months

MATERIALS

	M	S	C
Filter media	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	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
Bonding	Polyurethane	Polyurethane	Polyurethane
Endcaps	Aluminium	Aluminium	Aluminium
Sealing	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing for
PR 101	42	62	30	18	MA 101
PR 201					MA 201
PR 301					MA 301
PR 102	42	62	60	35	MA 102
PR 202					MA 202
PR 302					MA 302
PR 103	42	111	120	71	MA 103
PR 203					MA 203
PR 303					MA 303
PR 104	55	132	180	106	MA 104
PR 204					MA 204
PR 304					MA 304
PR 105	55	245	300	177	MA 105
PR 205					MA 205
PR 305					MA 305
PR 106	80	192	450	265	MA 106
PR 206					MA 206
PR 306					MA 306
PR 107	80	312	720	424	MA 107
PR 207					MA 207
PR 307					MA 307
PR 108	98	281	950	559	MA 108
PR 208					MA 208
PR 308					MA 308
PR 109	98	472	1350	795	MA 109
PR 209					MA 209
PR 309					MA 309
PR 110	118	539	1800	1059	MA 110
PR 210					MA 210
PR 310					MA 310
PR 111	118	666	2500	1471	MA 111
PR 211					MA 211
PR 311					MA 311

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. PR 101 M A1).



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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We distribute many of our products from our stock in Denmark. Some products are shipped from remote stock.



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