

FILTER ELEMENT – ODHE P

Alternative filter elements for Domnick Hunter

Series: Oil-x P

DESCRIPTION

ODHE P filter elements have been developed for highly 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
AO/XM	2	/	2
AA/XS	1	/	1
ACS/A	1*	/	0/1

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

* Valid if "XS" filter cartridge is installed upstream

TECHNICAL SPECIFICATION

	AO/XM ⁽⁶⁾	AA/XS ⁽⁶⁾	ACS/XA ⁽⁶⁾
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)	50 mbar/ 0,725 psi	80 mbar/ 1,160 psi	60 mbar/ 0,870 psi
Differential pressure (wet)	120 mbar/ 1,740 psi	190 mbar/ 2,756 psi	/
Particle retention (nominal)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	99,98 %	99,998 %	/
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
Capacity (ISO12500-2) ⁽⁵⁾	/	/	20 min

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

⁽⁶⁾ Cross reference Omega Air – Domnick Hunter filtration grades: XM=AO/XM, XS=AA/XS, A=ACS/A

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

	AO/XM	AA/XS	ACS/A
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	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers
Sealing	NBR	NBR	NBR

SIZES

Model*	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
ODHE P010	37	70	36	21	P010
ODHE P015	48	91	72	42	P015
ODHE P020	48	111	108	64	P020
ODHE P025	68	131	216	127	P025
ODHE P030	68	220	396	233	P030
ODHE P035	90	268	576	339	P035
ODHE P040	90	305	792	466	P040
ODHE P045	90	358	1188	699	P045
ODHE P050	108	458	1548	911	P050
ODHE P055	108	648	2232	1314	P055
ODHE P060	86	635	3600	2119	P060

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. ODHE P010 AO/XM).

MAINTENANCE

AO/XM, AA/XS - Replace filter element at least once per year or when pressure drop reaches 350mbar

ACS/A - Replace filter element at least every 6 months

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	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015	
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