FILTER ELEMENT – ODH HT

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

ODH HT filter elements have been specifically developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air[(1)]. ODH filter elements are designed to fit into Parker - Domnick Hunter filter housings.

APPLICATIONS [(2)]

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

[(1)]For any other technical gas please contact us or your local dealer
[(2)] ODH HT filter element can be used in variety of applications. For applications not listed please contact us or your local dealer.

FILTER ELEMENT RATING ACCORDING TO ISO8573-1

	Solid particles	Water	Oil
AO/M	Class 2	-	Class 2
AA/S	Class 1	-	Class 1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	AO/M [(5)]	AA/S [(5)]
Operating temperature	1,5 - 120 °C/ 35 - 248 °F	
Operating pressure	0 - 16 barg/ 0 - 232 psi	
Differential pressure (dry)	50 mbar/ 0,725 psi	80 mbar/ 1,160 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 %	99,9994 %
Residual oil content [(4)]	< 0,1mg/m^3	< 0,01mg/m^3

[(3)] Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 AO/M, AA/S, MPPS-(0,3µm)
[(4)] Tested according to ISO12500-1, 06050 AO/M, AA/S Oil aerosol viscosity 32mm^2/s, inlet concentration 10mg/m^3
[(5)] Cross reference Omega Air – Domnick Hunter filtration grades: M=AO, A=ACS

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SIZES

END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm^3/h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
ODH 009 _/_ HT	Ø=36; h=67	32	19	0009 (G, GP)
ODH 017 _/_ HT	Ø=50; h=81	61	36	0017 (G, GP)
ODH 030 _/_ HT	Ø=50; h=118	108	64	0030 (G, GP)
ODH 058 _/_ HT	Ø=72; h=161	216	127	0058 (G)
ODH 145 _/_ HT	Ø=72; h=260	288; 432; 522	170; 254; 307	0080 (G); 0125 (G); 0145 (G)
ODH 220 _/_ HT	Ø=86; h=330	720; 792	424; 466	0205 (G); 0220 (G)
ODH 330 _/_ HT	Ø=86; h=631	1188; 3600	699; 2119	0330 (G); *1000 (G)
ODH 430 _/_ HT	Ø=114; h=416	1440; 1548	848; 911	0405 (G); 0430 (G)
ODH 620 _/_ HT	Ø=114; h=637	2232	1314	0620 (G)

ø=Diameter; h=Height; _/_ =Filtration grade
*No. of filter elements: 3
**Double stage filter housing

MATERIALS

	AO/XM	AA/S
Filter media	Borosilicate micro fibres	
Drainage media	Polyester needle felt	
Protection media	Polyester fleece	
Adsorption media	/	
Support (inner-outer)	Stainless steel 1.4301	
Bonding	Epoxy	
Endcaps	Aluminium	
Sealing	Viton	

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 grade AO/M, AA/S 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 9001:2008 Reg. number: 200285	

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