

FILTER ELEMENT - ODH

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

ODH 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 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
PF/P	Class 6	-	-
AO/M	Class 2	-	Class 2
AA/S	Class 1	-	Class 1
ACS/A	-	-	Class 0/1
AC/A ²	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

	PF/P ⁽⁶⁾	AO/M ⁽⁶⁾	AA/S, AAR/S ⁽⁶⁾	ACS/A ⁽⁶⁾	AC/A ² ⁽⁶⁾
Operating temperature		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	N/A	N/A
Particle retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	N/A	99,9999% (0,1 µm)
Particle retention rate ISO ⁽³⁾	95 %	99,98 %	99,9994 %	N/A	99,98 %
Residual oil content ⁽⁴⁾	N/A	< 0,1mg/m ³	< 0,01mg/m ³	< 0,005mg/m ³	-
Capacity (ISO12500-2) ⁽⁵⁾	N/A	N/A	N/A	20 min	35 min

⁽³⁾Tested according to ISO12500-3, 1bar(a), nominal flow, 06050 PF/P, MPPS-(5 µm); 06050 AO/M, AA/S, MPPS-(0,3µm)

⁽⁴⁾Tested according to ISO12500-1, 06050 AO/M, AA/S Oil aerosol viscosity 32mm²/s, inlet concentration 10mg/m³

⁽⁵⁾Tested according to ISO12500-2, 06050 ACS/A, 07050 ACS/A tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

⁽⁶⁾Cross reference Omega Air – Domnick Hunter Alternative - Domnick Hunter filtration grades: P=PF/P=PF, M= AO/M =AO, S= AA/S=AA, S= AAR/S=AAR, A= ACS/A =ACS, A²=AC/A²=AC

SIZES

PLASTIC END CAPS	ALUMINIUM END CAPS	DIMENSIONS [mm]	FLOW CAPACITY [Nm ³ /h]	FLOW CAPACITY [scfm]	FITS INTO FILTER HOUSING
ODH 009 /_	ODH 009 /_ AI	Ø=36;h=67	32	19	0009 (G, GP)
ODH 017 /_	ODH 017 /_ AI	Ø=50;h=81	61	36	0017 (G, GP)
ODH 030 /_	ODH 030 /_ AI	Ø=50;h=118	108	64	0030 (G, GP)
ODH 058 /_	ODH 058 /_ AI	Ø=72;h=161	216	127	0058 (G)
ODH 145 /_	ODH 145 /_ AI	Ø=72;h=260	288; 432; 522	170; 254; 307	0080 (G); 0125 (G); 0145 (G)
ODH 220 /_	ODH 220 /_ AI	Ø=86;h=330	720; 792	424; 466	0205 (G); 0220 (G)
ODH 330 /_	ODH 330 /_ AI	Ø=86;h=631	1188; 3600	699; 2119	0330 (G); *1000 (G)
ODH 430 /_	ODH 430 /_ AI	Ø=114;h=416	1440; 1548	848; 911	0405 (G); 0430 (G)
ODH 620 /_	ODH 620 /_ AI	Ø=114;h=637	2232	1314	0620 (G)
ODH 006 AC/A ² ; HC/H2	-	Ø=42;h=72,5	22	13	**AC-0006 (G)
ODH 013 AC/A ² ; HC/H2	-	Ø=62;h=93	47	27	**AC-0013 (G)
ODH 025 AC/A	-	Ø=62;h=102	90	53	AC-0025 (G)
ODH 040 AC/A ² ; HC/H2	-	Ø=93;h=156	144	84	**AC-0040 (G)
ODH 065 AC/A	-	Ø=93;h=164,5	234	136	AC-0065 (G)
ODH 085 AC/A	-	Ø=93;h=264,5	306	178	AC-0085 (G)

Ø=Diameter; h=Height; *No. of filter elements: 3; **Double stage filter housing

MATERIALS

	PF/P	AO/M	AA/S	ACS/A	AC/A ²
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Glass fibre, borosilicate microfibers	Borosilicate micro fibers
Support media	Polyester	/	/	/	/
Drainage media	/	Polyurethane	Polyurethane	/	Polyurethane
Adsorption media	/	/	/	Activated carbon granulate PES (Polyester)	Active carbon
Support (inner-outer)	Stainless steel 1.4301				
Bonding	Polyurethane				
Endcaps	PA6 with 30% glass fibers				
Sealing	NBR				

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 PF/P, AO/M and AA/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade ACS/A, AC/A² at least every 6 months

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>
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