

## FILTER ELEMENT - ODH

### Alternative filter elements for Domnick Hunter

#### DESCRIPTION

ODH filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air(1).

#### FILTER ELEMENT RATING ACCORDING TO ISO8573-1

Filtration grade	Solid particles class	Water class	Oil class
AO/M	2	/	2
AA/S	1	/	1

\*Validated according to ISO12500-1 and ISO12500-3

#### TEHNIICAL SPECIFICATION

	AO/M (5)	AA/S (5)
Operating temperature	120	120
Operating pressure	2	1
Differential pressure (dry)	50	80
Differential pressure (wet)		
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)	< 0.1	< 0.01
Flow direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE

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

(4) Tested according to ISO12500-1, 06050 AO/M and AA/S Oil aerosol viscosity 32mm<sup>2</sup>/s, inlet concentration 10mg/m<sup>3</sup>

(5) Cross reference Omega Air – Domnick Hunter filtration grades: M=AO/M=AO, S=AA/S=AA

#### MATERIALS

	AO/M	AA/S
Filter media	Borosilicate micro fibres	Borosilicate micro fibres
Drainage media	Aramid	Aramid
Adsorption media	/	/
Protection media	Polyester fleece	Polyester fleece
Support	Stainless steel 1.4301	Stainless steel 1.4301
Endcaps	Stainless steel	Stainless steel
Bonding	Epoxy	Epoxy
Sealing	EPDM	EPDM

#### SIZES

Model	Ø [mm]	Height [mm]
ODH 220	86	330
ODH 330	86	631
ODH 620	114	637

Ø - Diameter

**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).

$$\text{CORRECTED CAPACITY} = \text{NOMINAL FLOW CAPACITY} \times \text{Cop}$$

**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
Cop	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**

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

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

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