

FILTER ELEMENT – OHI

(Particulate, Coalescing, Oil vapour removal)

DESCRIPTION

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

OHI filter elements will fit into HIROS 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⁾ OHI 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
Q/P	Class 6	-	-
P/M	Class 2	-	Class 2
S/S	Class 1	-	Class 1
C/A	Class 1	-	Class 0/1

Validated according to ISO12500-1 and ISO12500-3

TECHNICAL SPECIFICATION

Filtration grade name	Q/P ⁽⁶⁾	P/M ⁽⁶⁾	S/S ⁽⁶⁾	C/A ⁽⁶⁾
Operating temperature		1,5 - 65 °C 35 - 149 °F		1,5 - 45 °C 35 - 113 °F
Differential pressure (dry)	10 mbar 0,290 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
Particle Retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	N/A
Particle retention rate ISO ⁽³⁾	95 %	99,98 %	99,998 %	N/A
Residual oil content ⁽⁴⁾	N/A	< 0,1mg/m	< 0,01mg/m 3	<0,005mg/m ³
Capacity (ISO12500-2) ⁽⁵⁾		N/A		20 min

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

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

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

⁽⁶⁾ Cross reference Omega Air – Hiross filtration grades: P=Q/P=Q, M=P/M=P, S=S/S=S, A=C/A=C

FILTER CARTRIDGE NAMES

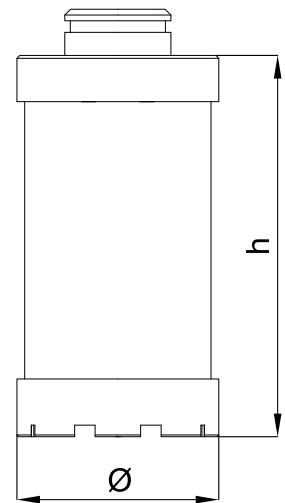
Filter cartridge names consist of cartridge size and filtration grade. For aluminium end caps add “/AL” at the end.

For plastic endcaps: “OHI 120 Q/P”, for aluminium endcaps: “OHI 120 Q/P AL”.

SIZES

SIZES	DIMENSIONS [mm]	FLOW CAPACITY	
		[Nm ³ /h]	[scfm]
OHI 004 Q/P	Ø=50; h=69		
OHI 007 Q/P	Ø=50; h=118		
OHI 015 Q/P	Ø=50; h=142		
OHI 024 Q/P	Ø=62; h=146		
OHI 035 Q/P	Ø=62; h=213		
OHI 060 Q/P	Ø=62; h=362		
OHI 090 Q/P	Ø=87; h=386		
OHI 120 Q/P	Ø=87; h=610		
OHI 150 Q/P	Ø=87; h=762		
OHI 240 Q/P	Ø=108; h=950		

Ø=Diameter; h=Height, *For plastic endcaps leave empty.



MATERIALS

	Q/P	P/M	S/S	C/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Glass fiber, borosilicate microfibres
Drainage media	Polyester	Polyester based polyurethane	Polyester based polyurethane	
Adsorption media	/	/		Activated carbon granulate PES (Polyester)
Support (inner-outer)	Stainless steel 1.4301			
Bonding	Polyurethane			
Endcaps	PA6 with 30% glass fibers OR Aluminium			
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 Q/P, P/M and S/S at least once per year or when pressure drop reaches 350mbar.

Replace filter element grade C/A at least every 6 months.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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