

FILTER ELEMENT – HIROSS

Alternative filter elements for Hiross

Series: Old

DESCRIPTION

These filter elements have been developed for high 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
Q	6	/	/
P	2	/	2
S	1	/	1
C	1*	/	0/1

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

TECHNICAL SPECIFICATION

	Q	P	S	C
Operating temperature	1,5 - 65 °C/ 35 - 149 °F	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			
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	/
Particle retention (nominal)	99,99% (3 µm)	99,9999% (0,1 µm)	99,9999% (0,01 µm)	/
Particle retention rate ISO ⁽³⁾	95 %	99,98 %	99,9994 %	/
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	INSIDE to OUTSIDE
Capacity (ISO12500-2) ⁽⁵⁾	/	/	/	20 min

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

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).

$$\text{CORRECTED CAPACITY} = \text{NOMINAL FLOW CAPACITY} \times C_{OP}$$

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

	Q	P	S	C
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	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	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers or aluminium			
Sealing	NBR	NBR	NBR	NBR

SIZES

Model	Diameter [mm]	Height [mm]	Fits into filter housing
HI 004	50	69	HFN004
HI 007	50	118	HFN007
HI 015	50	142	HFN015
HI 024	62	146	HFN024
HI 035	62	213	HFN035
HI 060	62	362	HFN060
HI 090	87	386	HFN090
HI 120	87	610	HFN120
HI 150	87	762	HFN150
HI 240	108	950	HFN240

*Filter cartridge names consist of cartridge size and filtration grade. Place filtration grade designation after filter size (e.g. OHI 004 Q/P). There is an option for **aluminum endcaps** (e.g. OHI 004 Q/P Al).

MAINTENANCE

Q, P, S - Replace filter element at least once per year or when pressure drop reaches 350mbar

C - Replace filter element at least every 6 months



Strength

- We export to almost 100 countries.
- We have more than 2000 global customers.
- We can provide a total filtration solution.

- Filter-Online & Nordic Filtration offers a wide selection of filtration products for Domestic and Industrial Application.

- You can buy our products on our websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our websites:

www.filter-online.com for Domestic Products

nordicfiltration.com for Industrial Products

We distribute many of our products from our stock in Denmark. Some products are shipped from remote stock.



Filter-Online & Nordic Filtration ApS
Glasvænget 6
5492 Vissenbjerg
Denmark

Filter-Online
+45 70 40 42 22
info@filter-online.com
www.filter-online.com

Nordic Filtration
+45 72 25 10 00
info@nordicfiltration.com
nordicfiltration.com