

Kaeser Gen 1 - Datasheet



Specifications

Size, "(inch):	see table
Particle Retention rating, µm:	0,01 - 3
Flow capacity, nm3/h:	35 - 1100
Op. Temp. C°:	1,5 - 65
Diff. Pressure:	10 - 60(dry) - 20 - 190(wet)
Efficiency, % (nominal):	99,99 - 99,9999
Connection:	-
Material:	-
Sealing:	NBR

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 (ISO 8573-1)			
Filtration grade	Solid particle class	Water class	Oil class
PE	6	/	/
MF	2	/	2
AK	1*	/	0/1

Technical Specifications					
	PE		MF		AK
Operating temp.	1,5-65°C		1,5-65°C		1,5-45°C
Operating pressure	0-16 barg		0-16 barg		0-16 barg
Differential pressure (dry)	10 mbar		50 mbar		60 mbar
Differential pressure (wet)	20 mbar		120 mbar		-
Particle retention (nominal)	99,99% (3µm)		99,9999% (0,1µm)		-
Particle retention rate ISO(3)	95%		99,98%		-
Residual oil content(4)	-		<0,1mg/m3		<0,005mg/m3
Flow Direction	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, 0605 P, MPPS-(5µm) ; 06050 R, M, S, MPPS-(0,3µm)

4* Tested according to ISO12500-1, 06050 M, S Oil aerosol viscosity 32 mm2/s, inlet concentration 10 mf/m3

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

Correction factors															
Operating pressure															
bar	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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					
	PE		MF		AK
Filter media	Acrylic fibers, cellulose		Borosilicate micro fibers		Borosilicate micro fibers
Protection media	Polyester fleece		Polyester fleece		Polyester fleece
Drainage media	-		Polyester needle felt		-
Adsorption media	-		-		Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301		Stainless steel 1.4301		Stainless steel 1.4301
Bonding	Polyurethane		Polyurethane		Polyurethane
Endcaps	PA6 with 30% glass fibers		PA6 with 30% glass fibers		PA6 with 30% glass fibers
Sealing	NBR		NBR		NBR



Strength

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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