

ALUP GEN 1. Datasheet



Specifications

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

DF 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
VA	6	/	/
MA	1	/	1
AK	1*	/	0/1

Technical Specifications					
	VA			MA	AK
Operating temp.	1,5-65 $^{\circ}\text{C}$			1,5-65 $^{\circ}\text{C}$	1,5-45 $^{\circ}\text{C}$
Operating pressure	0-16 barg			0-16 barg	0-16 barg
Differential pressure (dry)	10 mbar			80 mbar	60 mbar
Differential pressure (wet)	20 mbar			190 mbar	-
Particle retention (nominal)	99,99% (3 μm)			99,9999% (0,01 μm)	-
Particle retention rate ISO(3)	95%			99,9994%	-
Residual oil content(4)	-			<0,01mg/m ³	<0,005mg/m ³
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-(5 μm) ; 06050 R, M, S, MPPS-(0,3 μm)

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					
	VA			MA	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