

OMEGA - Replacement 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

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
P	6	/	/
V	3	/	/
M	2	/	2
S	1	/	1
A	1*	/	0/1

Technical Specifications					
	P	V	M	S	A
Operating temp.	1,5-65 $^{\circ}\text{C}$	1,5-65 $^{\circ}\text{C}$	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	0-16 barg	0-16 barg
Differential pressure (dry)	10 mbar	20 mbar	50 mbar	80 mbar	60 mbar
Differential pressure (wet)	20 mbar	40 mbar	120 mbar	190 mbar	-
Particle retention (nominal)	99,99% (3 μm)	99,9999% (1 μm)	99,9999% (0,1 μm)	99,9999% (0,01 μm)	-
Particle retention rate ISO(3)	95%	99,8%	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	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 mm^2/s , inlet concentration 10 mf/m^3

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					
	P	V	M	S	A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece	Polyester fleece
Drainage media	-	Polyester needle felt	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	Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers
Sealing	NBR	NBR	NBR	NBR	NBR