

DF P-V-M-S-C 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

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

Technical Specifications

	P/P(6)	V/XR(6)	M/XM(6)	S/XS(6)	A/A(6)
Operating temp.	1,5-65°C	1,5-65°C	1,5-65°C	1,5-65°C	1,5-45°C
Operating pressure	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% (3µm)	99,9999% (1µm)	99,9999% (0,1µm)	99,9999% (0,01µm)	-
Particle retention rate ISO(3)	95%	99,8%	99,98%	99,9994%	-
Residual oil content(4)	-	-	<0,1mg/m3	<0,01mg/m3	<0,005mg/m3
Flow Direction	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

6* Cross reference : P=P/P, XR=V/XR, XM=M/XM, XS=S/XS, A=A/A

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/P	V/XR	M/XM	S/XS	A/A
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers	Borosilicate micro fibers
Protection media	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				
Bonding	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Endcaps	PA6 with 30% glass fibers				
Sealing	NBR	NBR	NBR	NBR	NBR

Materials				
Model	Diameter mm	Height mm	Flow Capacity Nm ³ /h	fits into filter housing
DF 0035	40	63	35	0035
DF 0070	51	81	70	0070
DF 0120	51	125	120	0120
DF 0210	69,1	141,5	210	0210
DF 0320	69,1	200,5	320	0320
DF 0450	94,4	226,5	450	0450
DF 0600	94,4	260,5	600	0600
DF 0750	94,4	300,5	750	0750
DF 1100	94,4	420,5	1100	1100

* filter cartridge names consists of cartridge size and filtration grade. Place filtration grade designation after filter size.

MAINTENANCE

P/P, V/XR, M/XM, S/XS - Replace filter element at least once per year or when pressure drop reaches 350mbar
A/A - Replace filter element at least every 6 months