

FINCELL

particle filter elements for gas and fluids

Fincell filter elements remove solid particles contaminant from gas or liquid fluids.

Fincell has a wide range of applications in the industrial area.

The main applications are in the purification of air, nitrogen, gas, hydrogen, aqueous solutions, lubricants and hydrocarbure.

- High performance in particle removal
- Pleated filtering media with enhanced surface area
- Low pressure drop (Energy Saving)



Fincell filtering media, available with different filtering grade, are made of cellulose or borosilicate glass fiber impregnated with resins. The media impregnated with resins give higher resistance during the filtration process and prevent fiber release. The core and end caps may be provided both in stainless steel or tecnopolymer materials. Fincell are manufactured with media in pleated arrangement in order to increase filtering area and to reduce pressure drops.

Filtration grade and characteristics

Description	DE	DL	DB	DM
Gas filtration grade	0,05 micron @ 99%	0,3 micron @ 99,9%	1 micron @ 99,99%	5 micron @ 99,99%
Fluids filtration grade	0,5 micron @ 99%	3 micron @ 99%	5 micron @ 98%	15 micron @ 98%
Operating temperature	min. 1°C / max. 110° C			
Δp air new filter	120 mbar max.			
Δp water new filter	60 mbar			
Δp filter change	0,7 - 1 bar			
Max. differential pressure	3 bar			
Flow direction	Outside / Inside			
Media arrangement	Pleated			

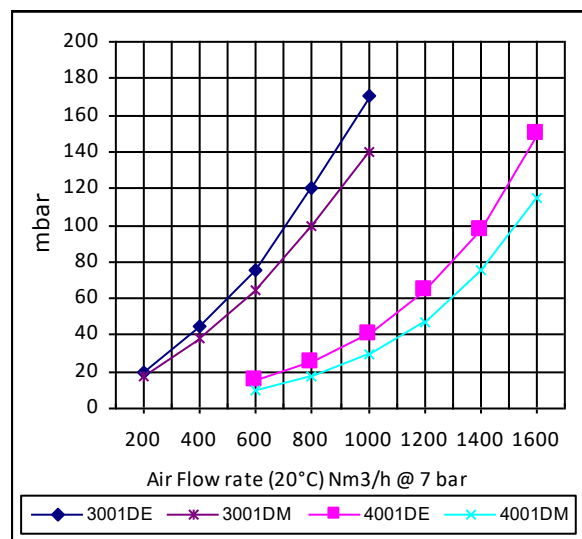
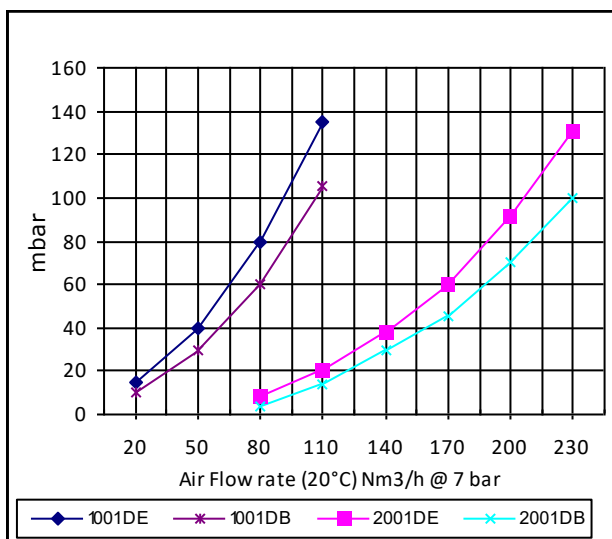
Materials

Description	Type		
	FCY	FCR	FCS
End caps	Technopolymer	Stainless steel AISI 430	Stainless steel AISI 316
Internal core	Stainless steel AISI 430 Technopolymer (FCY 2001)		Stainless steel AISI 304
External cage	Not foreseen		Stainless steel AISI 304
DE - DL media	Borosilicate glass fiber and Cellulose resin impregnated		
DB - DM media	Cellulose resin impregnated		
Standard gaskets	Buna N ;		
Gaskets on request	V=Viton ; T=Teflon ; S=Silicone		

Selection table

Model		Filtering Area cm ²	Flow rate		Dimensions mm		
			* Air Nm ³ /h	Water L/min	Outside dia.	Inside dia.	Length
FCY-1001	DE	700	95	18	58	22	135
	DL	700					
	DB	1.400	110	25			
FCY-2001	DE	2.300	230	58	70	26	250
	DM	4.000					
FCR-2001	DB	3.800					
FCR-3001	DE	4.200	800	90	92	52	350
	DL	4.200					
	DB	8.400	900	130			
	DM	9.000					
FCR-4001	DE	5.800	1.400	150	120	80	350
	DL	5.800					
FCS-4001	DB	10.000	1.600	190			
	DM	11.100					

*Flow rate are referred to air at compressor intake conditions (1 bar absolute @ 20°C) and compressed at 7 barg



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Data contained in this bulletin are informative and subject to change without notice.
User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.