

SYNTESI® ACTIVE CARBON FILTER

Activated-carbon filtering systems achieve the highest standard of purification possible in industrial applications. They eliminate all traces of oils, solvents and hydrocarbons, and remove unpleasant odours.

The operating principle uses activated carbon, which absorbs most of the polluting particles in the air thanks to minute holes in the granules of carbon.

There are two 1/8" ports, one on the front and one on the back, for use with pressure gauges or pressure switches or, considering the high flow rate, as additional air take-off. **The air taken from here is not filtered by the activated-carbon cartridge.**

Cartridge life and efficiency can be increased by using pre-filtered (5µm) and purified (0.01 µm) air.

The cartridge must be replaced at set intervals as there is no difference in load loss between an efficient cartridge and a saturated one.

N.B.: to ensure the performance and duration stated on the data sheet, the load loss (ΔP) must not exceed 75 mbar.

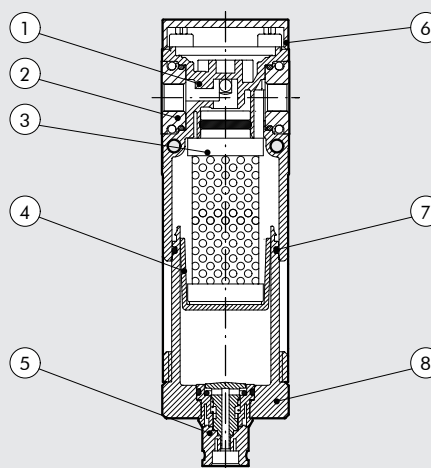


TECHNICAL DATA

	1/8"	1/4"	3/8"
Threaded port			
Residual oil at 20°C *	mg/m ³ 0.003 - output air purity class ISO8573-1: 1.7.1		
Duration of cartridge *	ore 4000		
Max. inlet pressure	bar 15		
	MPa 1.5		
	psi 217		
Suggested flow rate at 6.3 bar (0.63 MPa; 91 psi)	NI/min 350		
	scfm 12		
N.B.: flow rates higher than the recommended value reduces purification efficiency			
Min/max temperature at 10 bar; 1 MPa; 145 psi	°C From -20 to +50		
Weight	195	190	181
Condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure		
Fluid	0.01 µm filtered and deperated air		
Mounting position	In any position		
Additional air take-off port (unfiltered air from cartridge CA)	1/8", front and rear		
Additional air take-off flow rate at 6.3 bar (0.63 MPa; 91 psi) ΔP 1 bar (0.1 MPa; 14 psi)	NI/min 500		
	scfm 18		
Wall fixing screws	No. 2 M4 screws		
Notes on use	Upstream it's necessary to mount a coalescence filter deparator of 0.01 µm.		
* if the load loss of 75 mbar is not exceeded			

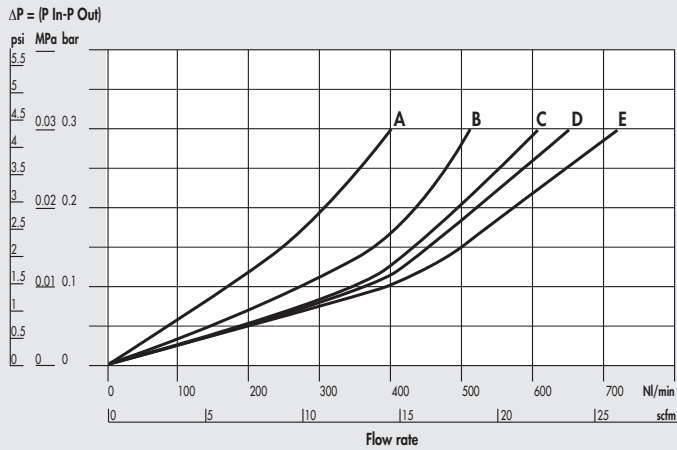
COMPONENTS

- ① Technopolymer deparator body
- ② OT58 brass IN/OUT bushing
- ③ Active carbon cartridge
- ④ Technopolymer cartridge support
- ⑤ Drain (RMSA)
- ⑥ Technopolymer plate
- ⑦ NBR o-ring gasket
- ⑧ Clear technopolymer cup

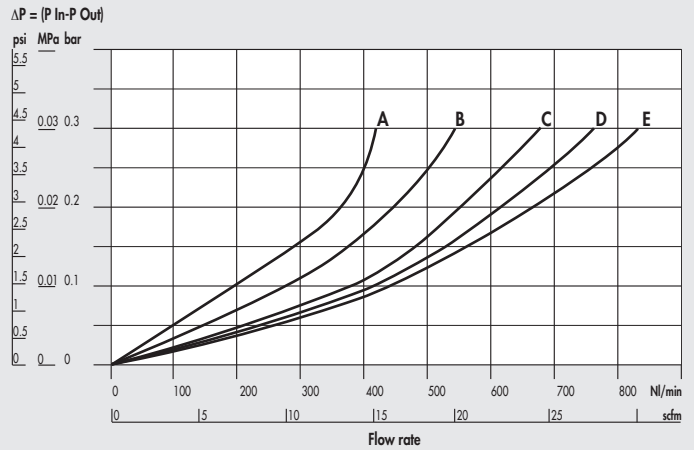


FLOW CHARTS

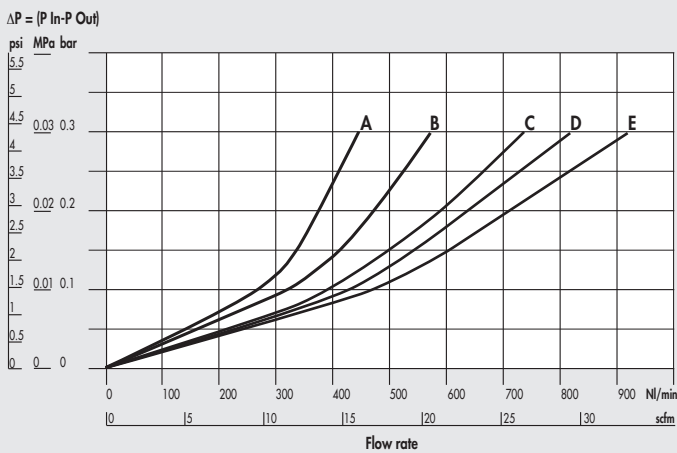
FIL CA Syntesi® 1/8"



FIL CA Syntesi® 1/4"

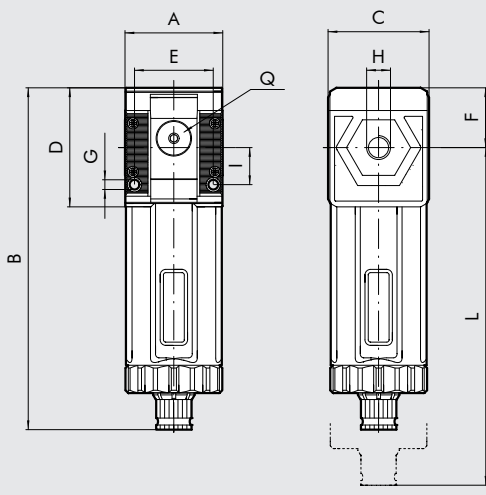


FIL CA Syntesi® 3/8"



- A = 2.5 bar - 0.25 MPa - 36 psi
- B = 4 bar - 0.4 MPa - 58 psi
- C = 6.3 bar - 0.63 MPa - 91 psi
- D = 8 bar - 0.8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

DIMENSIONS



H (threaded port)	1/8"	1/4"	3/8"
A	42	42	44
B	RMSA	148	
C		44	
D		51.5	
E		33.5	
F		25.8	
G		Hole for M4 screws	
I		16	
L	RMSA	202	
Q (no. 2 additional air takes-off)		1/8"	

