

SELF-CLEANING FILTER SPIROCLEAN SERIES



MAIN TECHNICAL FEATURES:

- Flowrate: uninterrupted even during washing phase
- Filtration degree ranging from 2000 to 50 µm on filtering element in AISI316
- Maximum flow rate 100 m³/h with a single filter
- Minimum amount discharge water
- All internal and external elements in contact with fluid are MOCA certified

APPLICATIONS

- Dairies
- Oil mills
- Confectionery
- Breweries

OPERATION

HOW IT WORKS

The water enters the filter at the inlet (1) and runs through the filtering cylinder with direction in to out.

In this way, all suspended non-deformable suspended solids particles greater than the installed filtration degree are retained on the filtering surface.

The filtered water flows out through the outlet (2) pipe.

REGENERATION SOLID/LIQUID DISCHARGE

The cleaning phase is performed by blades placed inside the filtering element. They scrape the solids deposited on it and then flush them towards the discharge area (3).

Discharge of the impurities is done through two valves, to compact the particles as much as possible.

The cleaning cycle can be either scheduled or started through pressure differential and can be set based on the quantity of solid particles and the flowrate.

The flow doesn't stops during the washing phase.

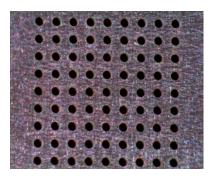


FILTERING ELEMENT

PERFORATED PLATE



MICROPERFORATED PLATE



FILTER CARTRIDGE



SCRAPER BLADES



CONTROL

An electric panel manages the washing phases.

The cleaning cycle is timed or controlled by differential pressure.

The time span between openings and the discharge valve opening time can be set.

The motor can be controlled manually via push buttons placed on the panel.

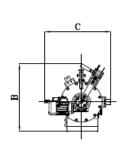
Discharge valves may be opened manually by activating the solenoid.

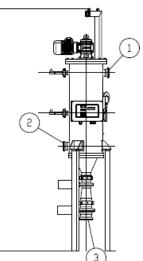
An alarm signal alerts of electric motor failure to rotate during the washing phase.

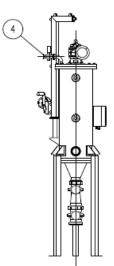
The software manage the CIP washing phase



DIMENSIONS AND DATA TECHNICAL







MODELLO 20 30 45 60 90 Filtration area (cm²) 2000 3000 4500 6000 9000 In/Out (1) (2) DN 50 F DN 60 F DN 70 F DN 70 F DN 100 F Discharge/Drain (3) DN 80 F DN 100 F Vent (4) DN 25 F <			(3)		I	
In/Out (1) (2) DN 50 F DN 60 F DN 70 F DN 70 F DN 70 F Discharge/Drain (3) DN 80 F DN 100 F DN 100 F DN 100 F DN 100 F Vent (4) DN 25 F Min - max pressure - Bar 0,5-10 0,5-10 0,5-10 0,5-10 0,5-10 Max temperature - °C 90 90 90 90 90 90 Max flow rate - m³/h 45 45 45 65 100 Power supply - Volt 400 50/60 Hz Power required - Watt 180 370 370 550 750 Solenoid valve - Volt / Watt 24 AC / 6 Pneumatic supply - Bar 2 - 8 2 - 8 2 - 8 2 - 8 2 - 8 Construction certificates CE CE CE CE Velt 24 AC / 6 24 AC / 6 </th <th>MODELLO</th> <th></th> <th></th> <th></th> <th></th> <th>SPIROCLEAN 90</th>	MODELLO					SPIROCLEAN 90
Discharge/Drain (3) DN 80 F DN 100 F DN 100 F DN 100 F DN 100 F Vent (4) DN 25 F	Filtration area (cm²)	2000	3000	4500	6000	9000
Vent (4) DN 25 F <	In/Out (1) (2)	DN 50 F	DN 60 F	DN 70 F	DN 70 F	DN 100 F
Min - max pressure - Bar 0,5-10	Discharge/Drain (3)	DN 80 F	DN 100 F	DN 100 F	DN 100 F	DN 100 F
Max temperature - °C 90 90 90 90 90 90 Max flow rate - m³/h 45 45 45 65 100 Power supply - Volt 400 50/60 Hz 4	Vent (4)	DN 25 F				
Max flow rate - m³/h 45 45 45 65 100 Power supply - Volt 400 50/60 Hz <t< th=""><th>Min - max pressure – <i>Bar</i></th><th>0,5-10</th><th>0,5-10</th><th>0,5-10</th><th>0,5-10</th><th>0,5-10</th></t<>	Min - max pressure – <i>Bar</i>	0,5-10	0,5-10	0,5-10	0,5-10	0,5-10
Power supply – Volt 400 50/60 Hz 40 50 40 50	Max temperature - °C	90	90	90	90	90
Power required - Watt 180 370 370 550 750 Solenoid valve - Volt / Watt 24 AC / 6 24 AC	Max flow rate - m ³ /h	45	45	45	65	100
Solenoid valve - Volt / Watt 24 AC / 6 Pneumatic supply - Bar 2 - 8 124 2 - 9 5 124 2 124 124 124 10 10	Power supply – <i>Volt</i>	400 50/60 Hz				
Pneumatic supply - Bar 2 - 8 Ces	Power required – Watt	180	370	370	550	750
Construction certificates CE	Solenoid valve – Volt / Watt	24 AC / 6	24 AC/ 6			
Vessel rule EN13445 EN13445 EN13445 EN13445 EN13445 EN13445 Volume Liters 28 48 72 95 124 Davit Incluso Incluso Incluso Incluso Incluso Foot Inclusi Inclusi Inclusi Inclusi Inclusi A (mm) 2050 2050 2050 2470 2515 B (mm) 621 621 621 673 705 C (mm) 585 585 585 637 753 D (mm) Estraction cartridge 850 850 850 850 850 Empty weight Kg 44 59 66 89 163	Pneumatic supply - Bar	2 - 8	2 - 8	2 - 8	2 - 8	2 – 8
Volume Liters 28 48 72 95 124 Davit Incluso <th< th=""><th>Construction certificates</th><td>CE</td><td>CE</td><td>CE</td><td>CE</td><td>CE</td></th<>	Construction certificates	CE	CE	CE	CE	CE
Davit Incluso	Vessel rule	EN13445	EN13445	EN13445	EN 13445	EN13445
Foot Inclusi I	Volume Liters	28	48	72	95	124
A (mm) 2050 2050 2050 2470 2515 B (mm) 621 621 621 673 705 C (mm) 585 585 585 637 753 D (mm) Estraction cartridge 850 850 850 850 850 850 Empty weight Kg 44 59 66 89 163	Davit	Incluso	Incluso	Incluso	Incluso	Incluso
B (mm) 621 621 621 673 705 C (mm) 585 585 585 637 753 D (mm) Estraction cartridge 850 850 850 850 850 850 850 Empty weight Kg 44 59 66 89 163	Foot	Inclusi	Inclusi	Inclusi	Inclusi	Inclusi
C (mm) 585 585 585 637 753 D (mm) Estraction cartridge 850 850 850 850 850 850 Empty weight Kg 44 59 66 89 163	A (mm)	2050	2050	2050	2470	2515
D (mm) Estraction cartridge 850 850 850 850 850 Empty weight Kg 44 59 66 89 163	B (mm)	621	621	621	673	705
Empty weight Kg 44 59 66 89 163	C (mm)	585	585	585	637	753
	D (mm) Estraction cartridge	850	850	850	850	850
Work weight Kg 72 107 138 184 287	Empty weight Kg	44	59	66	89	163
	Work weight Kg	72	107	138	184	287

Technical Data are indicative and subject to change without notice Maximum flowrate 125 micron, 1 CSP, ΔP 0.2 bar

DESCRIPTION OF PARTS

PART	DESCRIPTION	
Body	AISI316	
Cover	AISI316	
Connection	DIN 11851	
Filtration Basket	AISI316	
Filtration degree	AISI316 LASER MICRO HOLES :500,300,200,120,80,50, μm AISI316 FLAT SHEET HOLES da 2000-1500-1000 μm	
Scrape	PEEK	
Scrape support	AISI316	
Spring	SAF2205	
Internal seal	EPDM PEROX	
Reduction unit	Aluminium and carbon steel painted	
Electric motor	Hot-painted aluminium	
Solenoid valve	Three-way technopolymer	
Control panel	IP55 in AISI316	
Discharge valve	Butterfly valve with pneumatic actuator	
Accessories	AISI316	