Plastic Self-Cleaning
Double Disc Filters

DDSC

PLASTIC **FILTERS**

Drip & Micro Irrigation | Greenhouse Irrigation | Landscape Irrigation | Pivot Irrigation | Municipal & Drinking Water Pre-Filtration | Process & Cooling Water | Wastewater & Recycling

Engineered for High-Capacity Autonomy.

Aytok DDSC filters deliver fully autonomous, self-cleaning filtration for the most demanding industrial systems. Their innovative dual-body design provides a vast filtration surface to maximize flow rates and minimize backwash frequency. Engineered for industrial-grade durability, its robust construction integrates high-strength polyamide bodies with a precision backwash system. This fully hands-off system guarantees superior performance and unwavering reliability for your mission-critical operations.



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Filtration Sensitivity For (3"-4") : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity For (6") : 130 µ (micron)

CLEANING PROCESS

Waterborne particles entering the filter are captured on the outer surface of a compressed disc stack, forming a layer of contaminants. This buildup causes the pressure differential between the filter's inlet and outlet to increase. The system automatically initiates a backwash cycle based on one of two user-defined triggers configured on the control panel: when the pressure differential reaches a preset value, or after a pre-determined time interval has elapsed, whichever occurs first.

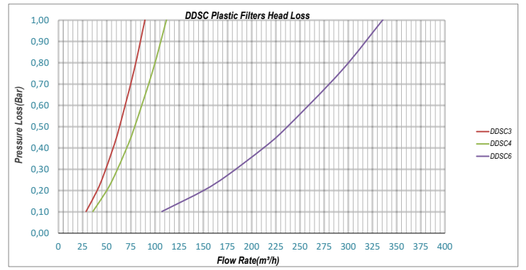
Upon activation, a three-way valve reverses the water flow direction and opens the discharge line. The pressurized water from the outlet acts on an internal spring mechanism, releasing the compression on the discs and allowing them to separate. This reverse flow, combined with the grooved design of the discs, causes them to spin and effectively flushes the accumulated particles from their surfaces out through the drainage line.

WORKING PRINCIPLE

Water enters the filter and passes through the disc stack. During operation, contaminants accumulate on the outer surface of the discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. When this pressure differential reaches a threshold of 0.7 bar, a cleaning cycle is required, which can be initiated either manually or automatically.

Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
DDSC3	3	80	1/4	3/4	190	1216	365	40	176	3100	16,5
DDSC4	4	100	1/4	3/4	190	1216	365	50	220	3100	16,8
DDSC6	6	150	1/4	2	242	1658	462	150	660	5680	33



SS304L Stainless Steel Clamp



Plastic Clamp



Connection Type:
Victaulic/Threaded/Flanged

