Plastic Self-Cleaning **Disc Filters**

PSC

PLASTIC **FILTERS**

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

Engineered for Autonomous Reliability.

Aytok PSC filters deliver fully autonomous, self-cleaning filtration for demanding applications. Their robust design combines a high-strength polyamide body with a precision-engineered backwash mechanism, ensuring exceptional long-term durability. This advanced, hands-off system operates automatically based on time or pressure differential, guaranteeing years of trouble-free performance and providing ultimate peace of mind for your 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 : 20, 50, 100, 130, 200 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.

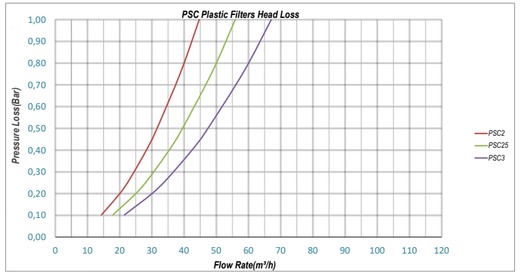
Upon activation, a three-way valve reverses the water flow direction and opens the discharge line. The pressurized water from the outlet acts on an internal spring mechanism, releasing the compression on the discs and allowing them to separate. This reverse flow, combined with the grooved design of the 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	DI	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
PSC2	2	50	1/4	3/4	190	765	335	20	88	1550	9,6
PSC25	2 1/2	65	1/4	3/4	190	765	335	25	110	1550	9,7
PSC3	3	80	1/4	3/4	190	765	335	30	132	1550	9,8

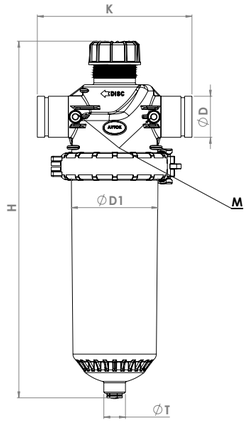


SS304L Stainless Steel Clamp



Plastic Clamp





Connection Type:
Victaulic/Threaded/Optionally 3" Flanged

