

PRODUCT TECHNICAL SPECIFICATIONS

PLASTIC FILTERS (Sifter-Disc)



1. EXTENT

It eliminates the clogging problem by keeping dirt and particles into the line in Agricultural and Landscape Irrigation systems.

2.IMPLEMENTATION

- Agricultural watering
- Landscaping industry

3. MATERIAL PROPERTIES

- Guaranteed Pressure Value: PN10 / 60 °C
- Made of high-quality polypropylene material.
- It has minimum pressure loss.
- It has the ability to operate in a wide flow range.
- It has a product design focused on easy cleanability and flexible maintenance.
- It has sensitive particle retention feature.
- It has 120 Mesh (130 Micron) Sieve and Disc Cartridge Option.

Sieve: Stainless Steel, Disc: Consists of Polypropylene (PP) raw material.

- High sensitivity to corrosion and chemicals
- Filter Manometer Output Measurement; ¼", Flush Valve Outlet Dimension ¾"

Technical Criterion	Unit	Necessity				
Connection Standard (Male Thread)		BSP & NPT				
Connection Dimensions	inch	3/4"	1"	1 1/4"	1 ½"	2"
Flow Range	m ³ /h	5	6	10	14	25
Filter Surface Area (Sieve / Disc)	cm ²	165 / 180	165 / 180	265 / 280	265 / 280	485 / 500
Max. Operating pressure	Bar	10				
Max. Operating temperature	°C	60				
Filter Type		Sieve / Disc				
Number of Sieve Mesh		120				
Permissible Particle Size	Micron	130				
Manometer Outlet		¼ " (2 Pieces)				
Flush Valve Outlet		¾"				

4. APPEARANCE

When examined with the naked eye, Plastic Filters should have a homogeneous structure, should not contain foreign matter, and should not have surface defects such as bubbles, cracks, deformities, or regional color differences on the box.

5. PACKAGING

Plastic Filters are supplied to the market in bags and boxes so that they will not be damaged during transportation.

6. MARKING

On the Plastic Filters put on the market and on their packaging;

- Name of the product,
- Quantity of the product,
- Company name, address, and other information (brand, etc.),
- Connection Size (3/4"-BSP)
- Filter Direction signs
- Manufacturing date,
- At least one of the batch, serial or code numbers,

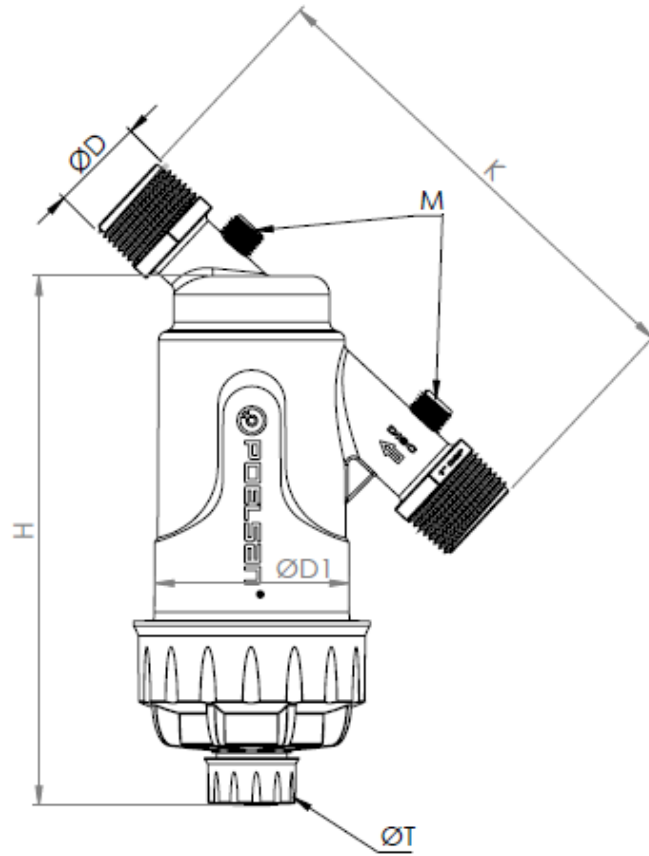
7. INSPECTION AND EXPERIMENTS

TEST DESCRIPTION	TEST METHOD	TEST CRITERIA		
		TEMPERATURE	PRESSURE	DURATION
Body Sealing Test	ISO 9912	23 °C ± 3 °C	PN x 1,5	5 min.
		23 °C ± 3 °C	PN x 1,5	15 min.
Cyclic Pressure Test	ISO 9912	23 °C ± 3 °C	1 Bar- 10 Bar	20.000 cycle
			1 Bar- 15 Bar	2000 cycle
Long-term Pressure Test	SPECIAL TEST	Outer Environment	10 Bar	30 Day
Explosion Test	SPECIAL TEST	23 °C ± 3 °C	Min. 20 Bar	-

8. USAGE INFORMATION

- Attention should be paid to the connection direction of the sieve and disc filter.
- Before operating the system, it should be checked whether the filter is clean.
- The filter should be cleaned when the difference between the filter inlet and outlet pressures is more than 1 bar.
- Filters must be cleaned regularly for the health of the system.
- For the discharge valve, the blind plug on the filter cover is removed and a $\frac{3}{4}$ " female valve is installed by drilling it with the help of a drill.

9. DIMENSIONS

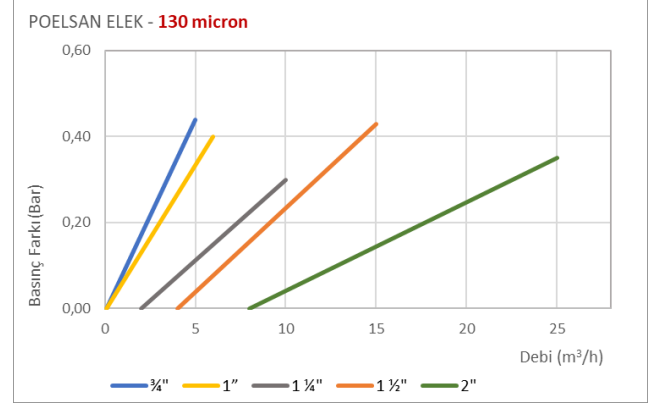
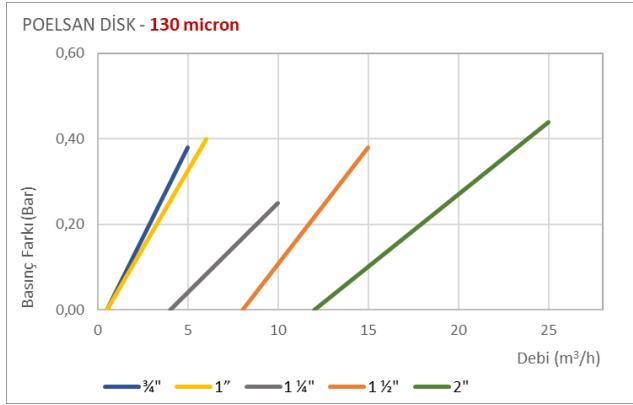


ØD	M	ØT	ØD1	H	K
$\frac{3}{4}$ "	$\frac{1}{4}$ "	$\frac{3}{4}$ "	67	183	154
1"	$\frac{1}{4}$ "	$\frac{3}{4}$ "	67	183	166
1 $\frac{1}{4}$ "	$\frac{1}{4}$ "	$\frac{3}{4}$ "	95,9	209	231
1 $\frac{1}{2}$ "	$\frac{1}{4}$ "	$\frac{3}{4}$ "	95,9	209	231
2"	$\frac{1}{4}$ "	$\frac{3}{4}$ "	122,6	260	264,5

Plastic Filter Capacity Table

Size	Maximum flow	Filtering Surface (Disc)	Filtering Surface (Screen)
3/4"	5 m ³ /h	165 cm ²	180 cm ²
1"	6 m ³ /h	165 cm ²	180 cm ²
1 1/4"	10 m ³ /h	265 cm ²	280 cm ²
1 1/2"	14 m ³ /h	265 cm ²	280 cm ²
2"	25 m ³ /h	485 cm ²	500 cm ²

Flow - Pressure Difference Graphs



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