

Point Source Irrigation

Fittings  Micros  Sprinklers  Drip  Valves

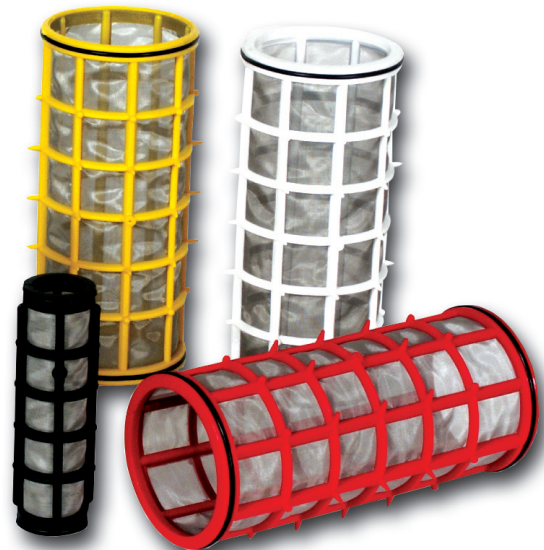


PLASTIC FILTERS

Reliable, Efficient Plastic Screen and Disc Filters



- All-purpose plastic filters from 3/4" to 3" diameter.
- Large filter area allows long intervals between cleaning.
- Constructed from high quality engineering grade UV protected plastics.
- Easy maintenance and easy cleaning.
- Available in a range of sizes, degrees of filtration and flow capacities.
- Suitable for Irrigation, Industrial and Domestic applications.
- Works well as a stand-alone unit.
- Pressure check point option available on certain models.



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Filter Elements

A range of filter elements and filtration degrees are available for the different filters. This will allow optimum suitability for different solutions of filtration problems. These solutions will take into consideration the type, concentration and particle size of particulate in accordance with the filtration method.

Screen Elements

Screen elements are offered in a wide variety of configurations. The configuration may depend upon the type of filter housing, application and the desired degree of filtration. Molded plastic construction with either polyester or stainless steel screens for the smaller filters to plastic cartridges with stainless steel screens on the larger filters are available. In general, screens are more efficient than discs when filtering sand.

Grooved Disc Elements

Disc elements are made up of numerous thin plastic discs that are stacked on a core. As dirty water enters the filter and pressure increases on the outside of the filter element, the water pressure further compresses the rings. Both sides of the discs are grooved so that the grooves cross each other when piled up and tightened together. The water is filtered through the entire depth of each ring - not only on the outer surface. The outer surface of the element will collect the larger particles and the inner grooved area collects the finer particles. The disc element provides in-depth filtration with a high capacity to retain organic material. The flow is from out-to-in.

The disc element can be easily cleaned. The core is opened allowing the discs to spin freely and be rinsed under running water.



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Technical Specifications

	Inlet/Outlet	Maximum Flow (GPM)	Maximum Pressure (PSI)	Filtration Area (sq.in.)		Weight (lb)	Discharge
				Screen	Disc		
3/4"	3/4"	13	120	12	-	0.35	3/4" Hose
1"	1"	12	120	12	-	0.37	3/4" Hose
3/4"	3/4"	22	120	18	27	0.50	3/4" Hose
1" - L	1"	22	120	18	27	0.52	3/4" Hose
1 1/2"	1 1/2"	40	120	42	78	1.72	3/4" Hose
2" - S	2"	80	120	156	147	6.60	3/4" FIPT
2" - L	2"	110	120	242	227	8.80	None
3"	3"	220	120	242	227	8.80	None

Construction Materials

	3/4"	1"	3/4" - L	1" - L	1 1/2"	2" - S	2" - L	3"
Body	PP	PP	PP	PP	PP	PP + GF	PP + GF	PP + GF
Cover	PP	PP	PP	PP	PP	PP + GF	PP + GF	PP + GF
Nut	-	-	-	-	PP + GF	PP + GF	PP + GF	
Gasket	NR	NR	NR	NR	NR	NR	NR	NR
Screen	Construction	PP	PP	PP	PP	PP	PP	PP
	Mesh	SS	SS	SS	SS	SS	SS	SS
	Seals	NR	NR	NR	NR	NR	NR	NR
Disc	Construction	-	-	PP	PP	PP	PP	PP
	Discs	-	-	PEHD	PEHD	PEHD	PEHD	PEHD
	Seals	-	-	NR	NR	NR	NR	NR

PP = Polypropylene
SS = Stainless Steel 304

PEHD = High Density Polyethylene
NR = Nitrile Rubber

PP + GF = Polypropylene + Glass Fiber

Screen Options for 3/4", 1", 3/4" - L, 1" - L and 1 1/2" Filters

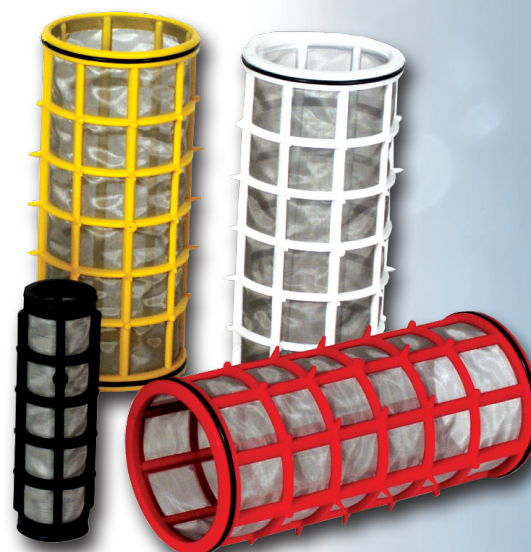
	Green	White	Red	Yellow	Black
Mesh	30	75	120	155	200
Micron	500	200	130	100	80
MM	0.5	0.2	0.13	0.1	0.08

Screen Options for 2" - S, 2" - L and 3" Filters

	White	Red	Yellow
Mesh	75	120	155
Micron	200	130	100
MM	0.2	0.13	0.1

Disc Options for Filters

	White	Red	Yellow
Mesh	75	120	155
Micron	200	130	100
MM	0.2	0.13	0.1



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Filter Application Recommendations

Flow Rate (GPM)	Head Loss (PSI)							
	3/4"	1"	3/4" - L	1" - L	1 1/2"	2" - S	2" - L	3"
5	0.9	0.9						
8	2.0	2.0						
10	3.1	3.1	1.2	1.2				
13	3.6	3.6	2.4	2.4				
15	5.1	5.1	2.8	2.8				
17	6.0	6.0	3.2	3.2				
22			4.3	4.3				
25			6.5	6.5	0.3			
30			8.8	8.8	0.4			
35					0.4			
45					0.6			
65					1.7	0.6	0.5	0.5
90					2.2	1.1	0.7	0.7
110					3.1	1.6	0.9	0.9
132					4.4	2.2	1.2	1.2
150						2.9	1.7	1.7
175						3.4	2.2	2.2
200						4.0	2.8	2.8
220						4.5	3.3	3.3
242						5.9	3.8	3.8
264						7.4	4.4	4.4
286								

Selecting the Right Filter

The following factors should be taken into consideration:

1. The required degree of filtration.
2. Working flow rate:
What is the maximum flow rate?
3. Working Pressure:
Minimum and maximum operating pressures.
4. Water quality:
For example, sand, algae, silt, sticks, leaves or mussels.

In general, a larger filter area is required to treat dirtier water with a finer degree of filtration.



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