

General Information:

The Dig Garden Irrigation Filter is a well-made, reasonably priced disc filter which fulfills the needs of the High Lifter Gravity Pump for a 120 Micron filter. The 3/4" male pipe thread inlet and outlet filter with grooved disc element provides better filtration than many of the screen and other type filters on the market. The disc filters can be used whenever organic materials, sand or sediments are present in the water source. The filter disc elements provide in-depth filtration as the sediments or organic materials accumulate on the outer face of the stacked discs. The filter disc is readily accessible for easy removal and cleaning.

Unlike screen filters, disk filters consist of stacked round grooved discs, which utilize three-dimensional filtration to stop organic materials, sand or other sediments. In cross section, the numerous small grooves on each side of the stacked discs act to disrupt and then block flow of organic material as the water moves through the filter. A number of the stacked grooved discs assembled together makes up the filter disc element assembly. Each size of grooved disc assembly has a distinct color representing a variation in degree of filtration.

When water flows through the disc filter, organic materials and sediment accumulate along the outside diameter of the disc element. As this occurs, there is a drop in pressure between the incoming water and the downstream water exiting the filter, forcing organic matter into the depths of the grooved disc element until stopped. If used with low water quality and not cleaned in time, the filter will come to have a fixed pressure on the inlet side of the filter and a zero pressure on the outlet side, assuring that regardless of the type of water used, water flow will be essentially stopped, and dirty water will not enter the drip system.



Specifications:

- Color: Red
- Filter configuration: 3/4" NPT male inlet and outlet
- Filter cylinder length: 5"
- Filter dimensions for 3/4" 4.7/8" H x 7" W
- Filter surface area: 28 square inches
- Materials: Disc Cylinder Assembly: PBT, Disc: Polypropylene , Filter housing: Polypropylene , Grooved Discs: Polypropylene, O-ring: EPDM
- Maximum flow rate: 3/4": 13 GPM
- Maximum working temperature: 130 degree F
- Operating pressure: up to 120 PSI



Dig Filter Element and Filtering Disc

Features:

- Color-coded disc replacements and screens are interchangeable and easy to identify
- Disc element provides in-depth filtration due to the discs' outer surface area and the depth of the disc element for retaining organic matters
- Disc elements have excellent resistance to most common chemicals
- Easy maintenance: the disc element assembly can be extracted from the filter for easy cleaning
- Large filtration area allows longer intervals between flushing
- Low friction loss
- Non corrosive materials
- Sediments accumulate on the outer face of the stacked disc, allowing clean water to flow through the staked discs out of the filter

Installation for 3/4" and 1" Disc Filter

1. Starting the irrigation system from a pipe:
2. Connect a 3/4" MNPT filter directly to the outlet of an AC valve or battery operated controller
3. Connect a 3/4" 25 PSI FNPT x MNPT pressure regulator to the filter.
4. Connect a 3/4" FNPT swivel adapter to the 3/4" 25 PSI pressure regulator.
5. To start the drip system, connect the poly drip tubing to the adapter by wiggling and forcing the drip tubing into the compression side of the adapter.
6. Lay out the drip tubing to the garden area. The 1/2" drip tubing is used as the main line for drip systems into which drip emitters, micro sprinklers or 1/4" micro tubing are inserted
7. Make sure that the water flow direction for each component matches the water flow of the system.
8. Use Teflon Tape only with the filter and make sure to remove all Teflon tape excess..
9. Pressurize the system and make sure that water is not leaking from the unit or any part along the line. Test the assembly manually and then automatically via the controller, and then program the controller.