



Superior  
irrigation  
protection

# Filtration

May 2023 v2.0

/ Product Catalog





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# / Filtration Intro

Filtration is critical in any drip irrigation system. Effective filtration is essential for proper irrigation system operation and long-term performance, as it prevents the irrigation water from clogging the drippers.

## Water quality

The concept “water quality” relates to the variety and concentration of the dissolved and suspended components in the water.

## Water requirements for drip irrigation

The quality of water for irrigation relates to the parameters required to maintain the crop's health and the integrity of the irrigation system. Every type of pressurized irrigation system requires attention to the water quality to avoid clogging of the irrigation components in order to enable orderly long-term irrigation according to the irrigation program.

Water quality will dictate filtration requirements, chemical injection requirements, and management of the irrigation systems to prevent dripper clogging.

Causes of dripper clogging in systems may be chemical (precipitates or scale), physical (grit or particulates such as sand and sediment) or biological (such as algae or bacteria).

The water's chemical characteristics are influenced by the variety and concentration of the substances dissolved in it. These dissolved substances include ions of dissolved salts such as chloride, sodium and nutrients (nitrogen, phosphorous, potassium and others). Calcium and magnesium influence the hardness of the water, iron and manganese are liable to be found either dissolved or as a residue, along with other dissolved organic compounds and even poisonous substances.

The biological characteristics of the water quality include a variety of living organisms such as micro-organisms, including bacteria, viruses, single celled entities, algae and zooplankton, which develop in open water along with creatures developing within the water transport system itself.

The water quality is expressed by the physical conditions and the variety and concentration of its constituents.

**The quality of the water is determined by a wide variety of parameters (measured or calculated) affecting the crop, the soil and the irrigation system. Some of them are listed below:**

- |   |   |  |
|---|---|--|
| ✓ <b>EC</b> (electrical conductivity)         | ✓ <b>SO<sub>4</sub></b> (sulfate)             | ✓ <b>Zooplankton</b>                     |
| ✓ <b>pH</b> (level of acidity or alkalinity)  | ✓ <b>PO<sub>4</sub></b> (phosphate)           | ✓ <b>BOD</b>                             |
| ✓ <b>Ca</b> (calcium - hardness of the water) | ✓ <b>N-NH<sub>4</sub></b> (nitrogen-ammonium) | (biochemical oxygen demand*)             |
| ✓ <b>Mg</b> (magnesium)                       | ✓ <b>N-NO<sub>3</sub></b> (nitrogen-nitrate)  | ✓ <b>COD</b>                             |
| ✓ <b>Na</b> (sodium)                          | ✓ <b>B</b> (boron)                            | (chemical oxygen demand*)                |
| ✓ <b>K</b> (potassium)                        | ✓ <b>Fe</b> (iron)                            | ✓ <b>VSS</b> (volatile suspended solids) |
| ✓ <b>HCO<sub>3</sub></b> (bicarbonate)        | ✓ <b>Mn</b> (manganese)                       |  |
| ✓ <b>CO<sub>3</sub></b> (carbonate)           | ✓ <b>TSS</b> (total suspended solids)         |  |
| ✓ <b>Alk</b> (alkalinity)                     | ✓ <b>TDS</b> (totally dissolved solids)       |  |
| ✓ <b>Cl</b> (chloride)                        | ✓ <b>Turbidity</b>                            |  |
|   | ✓ <b>Algae and Chlorophyll</b>                |  |

\*When waste, industrial effluent and/or recycled waters are used.

The water quality required for drip irrigation cannot always be defined in terms of particle sizes or the concentration of any specific factor, because of the complexity of the clogging factors and the changes occurring in them as they travel through the irrigation system. Changes such as water temperature, water pressure and flow rate all have an influence on the crystallization of suspended dissolved compounds, their unification and settling.

The most suitable way of defining the required quality of irrigation water is based on knowledge of all the clogging factors and determination of upper permitted threshold value for them in water arriving at the distribution system without fear of clogging or damage to the system.

## Water Contamination

For use with a drip irrigation system, irrigation water must be filtered to remove:

- ✓ **Physical material** - Silt, clay, mud, etc.
- ✓ **Chemicals** - Iron, calcium, manganese (these sometimes combine to form conglomerates), etc.
- ✓ **Organic material** - Plankton, etc.
- ✓ **Biological material** - Algae, etc.

## → Common Clogging Factors in Water Sources

| Water Source         |                      | Clogging Factor (According to Prevalence)      |   |   |
|----------------------|----------------------|--|---|---|
|                      |                      | Physical                                       | Chemical                                | Biological  |
| Ground               | Wells                | Sand   | Calcium*, iron, sulfide, manganese      | Ferric and manganese bacteria, sulfur bacteria                    |
|                      | Springs              | Sand, silt                                     | Calcium*, iron, sulfide, manganese      | Protozoa, bryozoa, ferric and manganese bacteria, sulfur bacteria |
| Surface              | Lakes and Reservoirs | Sand, silt, algae, zooplankton                 | Calcium*, sulfide, iron and manganese** | Protozoa, bryozoa, sulfur bacteria                                |
|                      | Rivers               | Sand, silt, clay                               | Calcium*, iron, manganese               | Protozoa, bryozoa   |
|                      | Canals               | Sand, silt, clay, algae, zooplankton           | Calcium*, iron and manganese**          | Protozoa, bryozoa   |
| Reclaimed wastewater | Non-Accumulating***  | Suspended organic material                     | Sulfide                                 | Protozoa, bryozoa, bacterial silt                                 |
|                      | Accumulating****     | Algae, zooplankton, suspended organic material | Sulfide                                 | Protozoa, bryozoa, bacterial silt                                 |

\* Depending on the pH and temperature of the water.

\*\* Iron and manganese may appear when the water pH is low.

\*\*\* Non-accumulating-effluent emerging from a mechanical biological wastewater treatment plant.

\*\*\*\* Accumulating-effluent after processing in pools, or sewage from reservoir.



## → Definition of Water Quality and Treatment Requirements for Drip Irrigation

| Parameter                                    |                           | Concentration   |          |              | Treatment  |
|--|---------------------------|---|----------|--------------|--|
|  |                           | Low   | Medium   | High         |  |
| Suspended solids (mg/l)                      |                           | <20   | 20-60    | >60          | Filtration*  |
| Sand (mg/l)                                  |                           | <1  | 1-5      | >5           | Hydrocyclone sand separation and filtration*                           |
| Silt and Clay (mg/l)                         |                           | <20   | 20-60    | >60          | Filtration*  |
| Calcium conc. (as CaCO <sub>3</sub> ) (mg/l) |                           | <50   | 50-300   | >300         | pH rectification   |
| Iron (mg/l)                                  |                           | <0.3  | 0.3-0.5  | >0.5         | Oxidization and iron removal   |
| Manganese (mg/l)                             |                           | <0.2  | 0.2-0.5  | >0.5         | Oxidization and manganese removal                                      |
| Sulfide (mg/l)                               |                           | <0.2  | 0.2-0.5  | >0.5         | Oxidization and purification   |
| Algae (Chlorophyll A) (mg/l)                 |                           | <0.1  | 0.1-0.3  | >0.3         | Treatment at water source; Filtration and chlorination                 |
| Plankton (details)                           | Plankton                  | <2  | 2-20     | >20          | Treatment at water source and filtration                               |
|  | Copepod                   | <5  | 5-50     | >50          | Treatment at water source and filtration                               |
|  | Rotifer                   | <50   | 50-200   | >200         | Filtration (low concentration)   |
|  | Dissolved oxygen (mg/l)** | >8  | 8.0-2.0  | <2           | Treatment at water source; pumping point (add if higher concentration) |
| pH   |                           | pH rectification to required level according to crop and soil |          |              |  |
| Phosphorous (mg/l)                           |                           | <1  | 1-10     | >10          | Treatment at water source (nutrients or sewage)                        |
| Heterotrophic bacteria (bacterial slime)     |                           | 0   | Presence | Colonization | Treatment at water source; purification                                |
| Sulfuric bacteria                            |                           | 0   | Presence | Colonization | Sulfide removal and purification                                       |
| Iron and Manganese bacteria                  |                           | 0   | Presence | Colonization | Iron and manganese removal and purification                            |
| Col. Protozoa                                |                           | 0   | Presence | Colonization | Regular purification   |
| Bryozoa                                      |                           | 0   | Presence | Colonization | Purification and filtration  |
| Snails and shells                            |                           | 0   | Presence | Colonization | Avoid development  |
| BOD sewage (mg/l)                            |                           | <10   | 10-50    | >50          | Sewage treatment, filtration and chlorination                          |

\* In extreme cases sedimentation prior to filtration is required.

\*\* Although it does not lead directly to clogging of the drippers, a lack of oxygen in the water usually indicates the presence of sulfide. A lack of oxygen in sewage indicates a poor level of sewage treatment.

## → Water Analysis

A water analysis is necessary in order to select the appropriate type of filtration system, to prescribe a suitable maintenance program, to select the type of driplines and to prescribe an appropriate Nutrigation™ plan.



# / Types of Filters

The types of filters used most often in drip irrigation systems are:



**Media filters** (gravel or sand) are necessary for any surface water source and especially so for wastewater. They consist of a metal or plastic enclosure incorporating small gravel stones or sand, which traps the dirt. This filter includes a flushing system for washing the gravel or sand and returning the dirt to the water source.

## **ATTENTION**

It is highly recommended to install a screen filter downstream the media filter in order to prevent infiltration of filter medium into the system in the event of a malfunction of the media filter.



**Disc filters** are used with surface water systems, wells or municipal water sources. These filters are comprised of a series of grooved plastic discs stacked together with a total equivalent screen size ranging from 40 to 400mesh. These filters enable deep three-dimensional filtering (e.g. allow entrapping of more particles as water passes through the pores created by the grooves in the surfaces of the filtering discs stacked together in the filter). Having more surface area than screen filters, disc filters are better suited for higher flow rates.



**Screen filters** are used mainly as secondary filters with surface water systems or as primary filters with well or municipal water sources. A screen filter is comprised of a cylinder with a net that traps the dirt. This filter is intended for relatively clean water; its use is less common with water from a reservoir or pumped water.

## **ATTENTION**

In any type of filter, the dirt returned to the water source should be discharged as far as possible from the suction point. In a streaming source (e.g. a river) the discharge point should be downstream from the suction point.



**Hydrocyclone sand separators** are used as a preliminary stage of filtration in the presence of sand or other heavy particles (50 micron or bigger) in the source water. It utilizes centrifugal force to separate the particles from the water. The separated material drops down into a tank or reservoir where it can be removed later.

It is not a true filter, since there is no physical barrier to separate out the particles, but it is often used before a filter to first remove the bulk of the contaminant, where the filter does the final cleaning. This type of design reduces the time required to flush and clean the main filter. Each hydrocyclone model has its specific operation flow rate range, it will not perform outside this range.



## → Filter Screen/Disc Size

The relevant term for drip irrigation is the size of the gaps between fibers in the filter, in **Micron** (1/1000mm).

**Mesh size** represents the number of pores (openings) per linear inch (typically 40-200) but does not represent the size of each pore.

Since the filtration industry traditionally uses mesh size, see the table below for **Micron/Mesh** conversion:

| Micron (mm) = Size of Gaps Between Fibers | 400 | 250 | 177 | 125 | 105 | 100 | 74  |
|---|-----|-----|-----|-----|-----|-----|-----|
| Mesh = Number of Pores Per Linear Inch    | 40  | 60  | 80  | 120 | 140 | 150 | 200 |

\*The mesh to micron conversion is not a proper mathematical conversion but a commercial approximation.

## → Considerations for Comparison Between Automatic Filters

| Consideration   | Component  | Gravel/Sand                                | Disc  | Screen |
|---|--|--|-------|--------|
| Removal Efficiency of Different Suspended Particles and General Operation | Suspended solids (general)                                     | ● ● ●                                      | ● ● ● | ●      |
|   | General filter level   | ● ● ●                                      | ● ●   | ●      |
|   | Sand (following hydrocyclone)                                  | ●  | ● ●   | ● ● ●  |
|   | Silt and clay  | ● ● ●                                      | ● ●   | ●      |
|   | Algae (< 40 micron)  | ● ● ●                                      | ● ●   | ●      |
|   | Zooplankton  | ● ●  | ● ● ● | ● ● ●  |
|   | Iron and manganese (after oxidization)                         | ● ● ●                                      | ● ●   | ● ●    |
|   | Slime  | ●  | ● ●   | ● ● ●  |
| Technical and Hydraulic Considerations                                    | Low supply capacity  | ● ●  | ● ● ● | ●      |
|   | Very high supply capacity                                      | ●  | ● ●   | ● ● ●  |
|   | Minimum flushing pressure (bar)                                | 2.0  | 1.5   | 2.0    |
|   | Quantity and cost of flushing water                            | ● ● ●                                      | ●     | ●      |
|   | Water in flushing cycle  | ● ● ●                                      | ● ●   | ●      |
|   | Capacity required for flushing                                 | ● ● ●                                      | ●     | ● ●    |
|   | Complexity of system   | ● ●  | ● ●   | ● ●    |
|   | Corrosion proof  | ●  | ● ● ● | ● ●    |
| Operational and Maintenance Considerations                                | Operational and maintenance requirements                       | ● ● ●                                      | ●     | ●      |
|   | Frequency of operational failures                              | ● ● ●                                      | ●     | ●      |
|   | Expertise required   | ● ●  | ● ●   | ● ●    |
|   | Cost of maintenance  | Check and compare                          |       |        |
| Financial Considerations  | Cost of system   | Check and compare                          |       |        |
|   | Cost of accessories (pressure, capacity and non-return valves) | Add to cost of system                      |       |        |
|   | Cost of m <sup>3</sup> /hr of filtered water                   | Total cost of supply in m <sup>3</sup> /hr |       |        |
|   | System depreciation  | Add to calculation                         |       |        |

## → Filtration requirements

The design of a filtration system involves selection of filter type and filter size (capacity) depending on the water source and the amounts of particulate matter, carbonates and iron in the water supply and the kinds (if any) of nutrients and/or chemical stock solutions to be injected.

The type of filtration to be used is carefully selected at the planning stage according to the general quality of the irrigation water, and the presence of various substances in it, with respect to the specific requirements of the irrigation system.

### NOTE

If a hydrocyclone sand separator is required, make sure it suits the flow rate range of the planned system.

Water quality and drippers specifications will determine the filtration type, level (effective mesh size) and quantity. Most drip irrigation systems require filtration of 130 micron (120 mesh) or higher (filters may also be specified by the maximum particle size that will pass it - in microns).

## ATTENTION

Standard irrigation filters will NOT remove salt or dissolved solids.

## ATTENTION

Always install a filter when setting up a drip irrigation system. Even if potable water is used, a basic screen filter is still required.

A well planned drip irrigation system includes 2 stages of filtration:

### Main (Primary) filtration

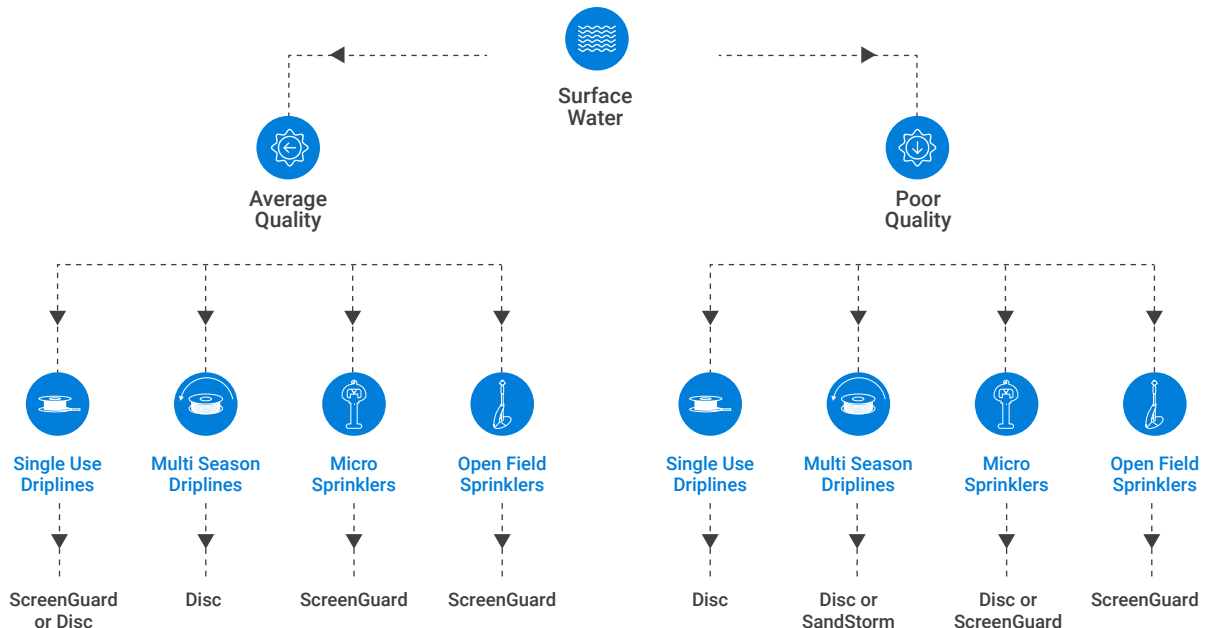
- ✓ Responsible for filtering relatively large particles near the water source
- ✓ Comprised of a media or disc filter
- ✓ A hydrocyclone sand separator should be placed before the main filter in cases where sand or other heavy particles (50micron or bigger) are present in the source water

### Secondary filtration

- ✓ Responsible for filtering relatively small particles remaining after the main filtration stage.
- ✓ Two types of filters can be used for secondary filtration:
  - ✓ Screen filter
  - ✓ Disc filter

## / Filters at a Glance

### → Choosing The Right Solution



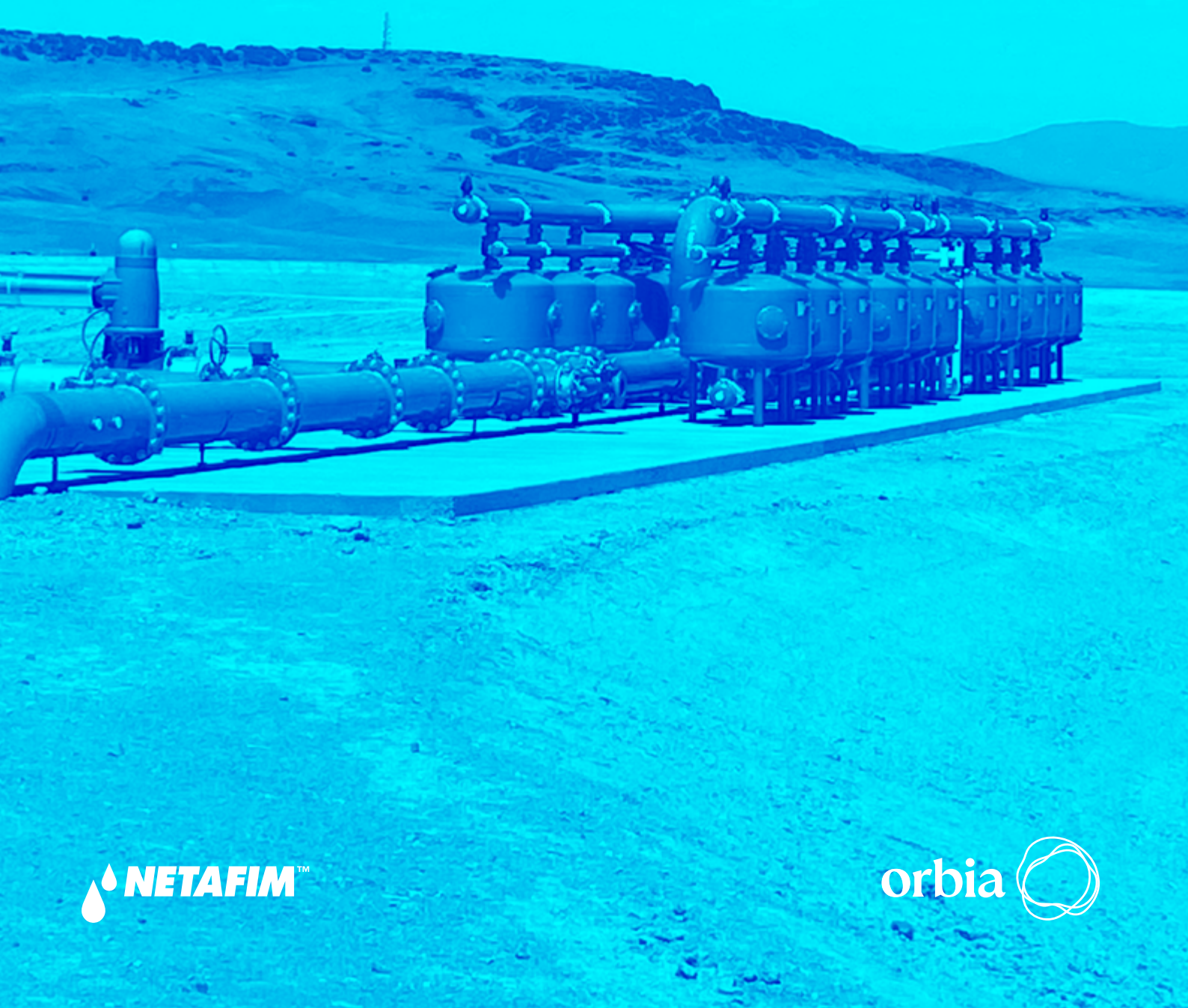
## / Filter Configurator

Here at Netafim, we understand that choosing the right filter is a big decision that involves a deep understanding of all the parameters surrounding your exploitation. To help you to choose THE CORRECT FILTER, Netafim has designed the filter configurator; in no time and three easy steps, the app will offer you the best filter suggestion.



[Help me choose the right filter for me](#)

# Media Filters





# Sandstorm™

## DOUBLE CHAMBER METAL MEDIA FILTER

Offers high quality media filters made from carbon steel ST-37.2 in a modular configuration with high UV and corrosion protection and with the industrial leading warranty, produces healthier crops, higher yields and more profitable farming.



Maximum  
protection



High Corrosion  
and UV resistance



Ease of  
maintenance

## / Benefits & Features

- Superior quality High quality carbon steel media filters
- Industry leading UV Corrosion and UV protection due to special multi-layer coating
- Steady under any weather conditions Maximum protection and reliability in harsh conditions
- Flexible and modular design Allows for future expansion as needed
- Easy installation & maintenance Thanks to large and multiple access ports
- Mounted rings For mobile system installations
- Available in array of diameters Wide range of double and single chamber diameters
- Proven quality Industry leading warranty

# / Applications

- ✓ Primary filtration for irrigation systems using surface water from rivers, streams and canals that contain organic matter and in many cases silt and/or clay
- ✓ Irrigating systems with dripperlines in poor surface water quality in multiple season applications
- ✓ For water contain iron (with special media)

## → Hydraulic Performance

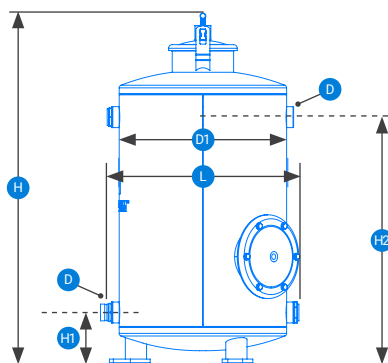
| Tank Diameter | Filtration Area |       | Maximum Recommended Flow Rate |     | Back Flush Flow Rate |     |           |     | Minimum Back Flush Pressure (bar/psi) | Maximum Operating Pressure (bar/psi) | Weight Empty Tank |       |
|---------------|-----------------|-------|-------------------------------|-----|----------------------|-----|-----------|-----|---------------------------------------|--------------------------------------|-------------------|-------|
|               |                 |       |                               |     | Basalt Number 1      |     | Silica 16 |     |                                       |                                      |                   |       |
|               | m²              | ft²   | m³/h                          | gpm | m³/h                 | gpm | m³/h      | gpm |                                       |                                      | kg                | lb    |
| 12"           | 0.07            | 0.75  | 5                             | 22  | 5.5                  | 24  | 3         | 13  | 2/30                                  | 8/115, 10/145                        | 46.5              | 102.5 |
| 16"           | 0.12            | 1.29  | 8.5                           | 35  | 10                   | 44  | 5.5       | 24  |                                       |                                      | 60                | 132.2 |
| 20"           | 0.2             | 2.15  | 14                            | 60  | 17                   | 75  | 9         | 40  |                                       |                                      | 76                | 167.5 |
| 24"           | 0.29            | 3.12  | 20                            | 90  | 22                   | 97  | 12        | 53  |                                       |                                      | 108               | 237   |
| 30"           | 0.45            | 4.84  | 30                            | 130 | 36                   | 160 | 20        | 88  |                                       |                                      | 144               | 317.4 |
| 36"           | 0.65            | 7     | 45                            | 200 | 50                   | 220 | 28        | 125 |                                       |                                      | 190               | 418   |
| 48"           | 1.13            | 12.16 | 80                            | 350 | 80                   | 350 | 43        | 190 |                                       |                                      | 306               | 673   |

\* Maximum recommended flow rate is based on good water quality and calculated with velocity of 70m/h

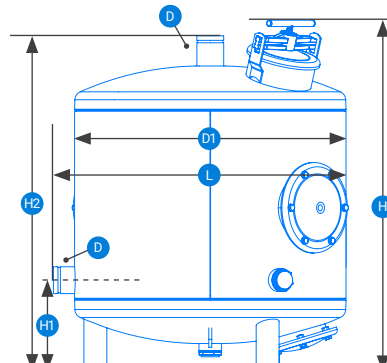
## → Technical Dimensions

| Tank Diam. | D (in.)   | D1 (in.) | H1 (mm) | H2 (mm) | H (mm) | L (mm) | Sand Qty. (kg) |
|------------|-----------|----------|---------|---------|--------|--------|----------------|
| 12"        | 2" (1")   | 12       | 150     | 785     | 1,120  | 420    | 60             |
| 16"        | 2" (1.5") | 16       | 180     | 870     | 1,204  | 511    | 90             |
| 20"        | 2/3       | 20       | 180     | 880     | 1,272  | 611    | 120            |
| 24"        | 2/3       | 24       | 180     | 880     | 1,253  | 711    | 180            |
| 30"        | 3/3       | 30       | 300     | 1,071   | 1,167  | 876    | 240            |
| 36"        | 3         | 36       | 300     | 1,110   | 1,162  | 1,034  | 360            |
| 48"        | 4         | 48       | 330     | 1,110   | 1,083  | 1,343  | 575            |

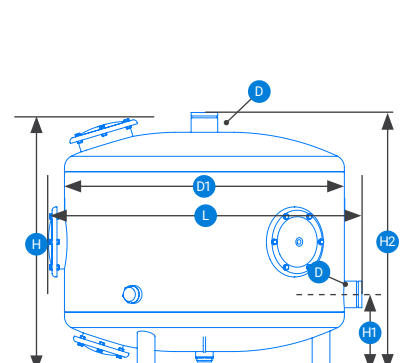
Tanks 12-24"



Tanks 30-36"

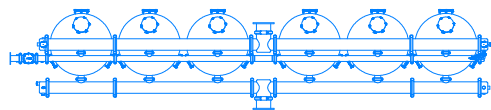


Tanks 48"

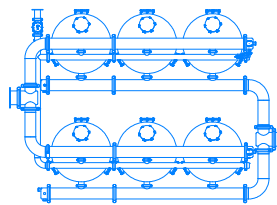


## → Configuration

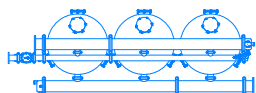
Straight-Line Center Feed  
Number of tanks: 5-10



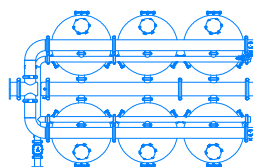
Parallel  
Number of tanks: 5-10



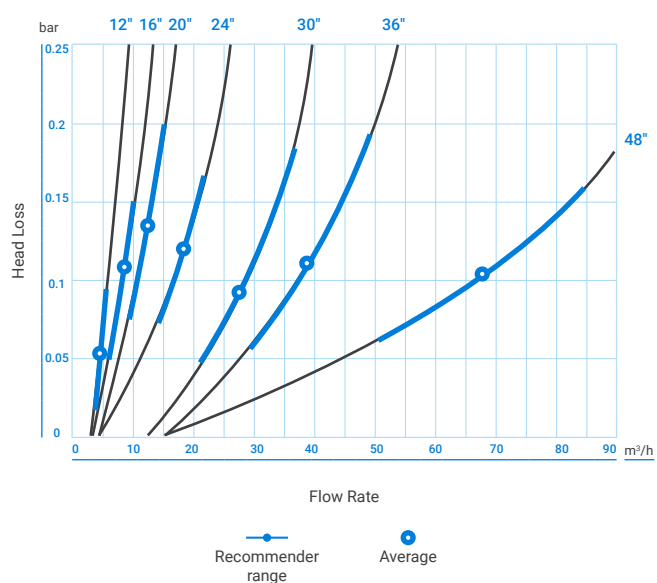
Straight-Line  
Number of tanks: 2-5



Parallel Centered  
Number of tanks: 5-10



## → Head Loss





# Sandstorm™

## SINGLE CHAMBER METAL MEDIA FILTER

Sandstorm™ media filters offers high quality filters made from carbon steel ST-37.2 in a modular configuration with high resistance to UV and multi layer corrosion protection. Its best-in-class warranty assists farmers achieve healthier crops, higher yields and maximize profits.



Maximum  
protection



High Corrosion  
and UV resistance



Ease of  
operation

## / Benefits & Features

- Superior quality High quality carbon steel media filters
- Industry leading UV Corrosion and UV protection due to special multi-layer coating
- Steady under any weather conditions Maximum protection and reliability in harsh conditions
- Flexible and modular design Allows for future expansion as needed
- Easy installation & maintenance Thanks to large and multiple access ports
- Mounted rings For mobile system installations
- Available in array of diameters Wide range of double and single chamber diameters
- Proven quality Industry leading warranty

# / Applications

- ✓ Primary filtration for irrigation systems using Surface water from Rivers, Streams and Canals that contain organic matter and in many cases silt and/or clay particles
- ✓ Multiple season Micro Irrigation systems with poor surface water quality
- ✓ Irrigation water containing high levels of iron (with special media)

## → Hydraulic Performance

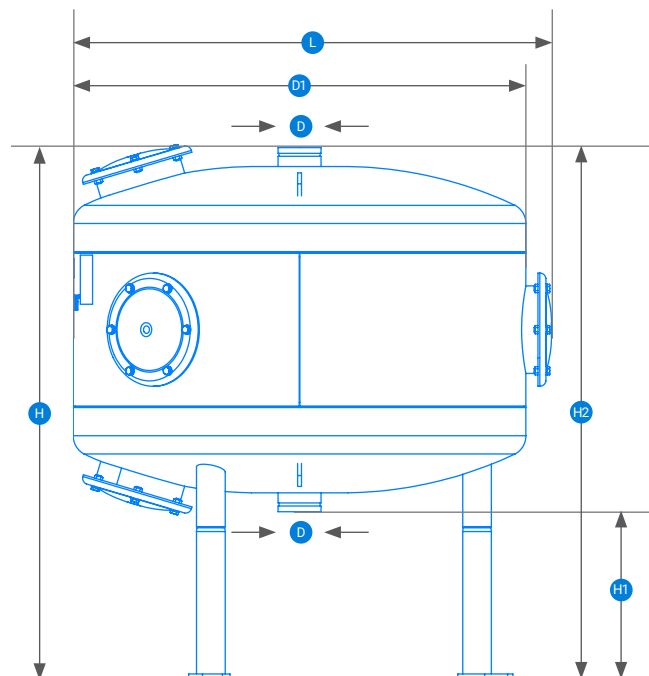
| Tank Diameter | Filtration Area |       | Maximum Recommended Flow Rate |     | Back Flush Flow Rate |     |           |     | Minimum Back Flush Pressure (bar/psi) | Maximum Operating Pressure (bar/psi) |
|---------------|-----------------|-------|-------------------------------|-----|----------------------|-----|-----------|-----|---------------------------------------|--------------------------------------|
|               |                 |       |                               |     | Basalt Number 1      |     | Silica 16 |     |                                       |                                      |
|               | m²              | ft²   | m³/h                          | gpm | m³/h                 | gpm | m³/h      | gpm |                                       |                                      |
| 30"           | 0.45            | 4.84  | 30                            | 132 | 36                   | 159 | 20        | 88  | 2/29                                  | 8/115, 10/145                        |
| 36"           | 0.65            | 7     | 45                            | 198 | 50                   | 220 | 28        | 123 |                                       |                                      |
| 48"           | 1.13            | 12.16 | 80                            | 352 | 80                   | 352 | 43        | 189 |                                       |                                      |

\* Maximum recommended flow rate is based on good water quality and calculated with velocity of 70m/hr (0.064ft/sec)

## → Technical Dimensions

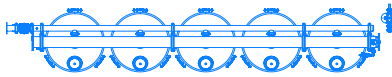
| Tank Diameter | D in. | D1 in. | H1  |       | H2    |       | H     |       | L     |       | Empty Tank Weight |     | Sand Quantity* |       |
|---------------|-------|--------|-----|-------|-------|-------|-------|-------|-------|-------|-------------------|-----|----------------|-------|
|               |       |        | mm  | in.   | mm    | in.   | mm    | in.   | mm    | in.   | kg                | lb  | kg             | lb    |
| 30"           | 3     | 30     | 406 | 15.98 | 1,371 | 53.98 | 1,376 | 54.17 | 820   | 32.28 | 120               | 265 | 310            | 684   |
| 36"           | 3     | 36     |     |       |       |       | 1,378 | 54.25 | 1,034 | 40.71 | 155               | 342 | 475            | 1,047 |
| 48"           | 4     | 48     |     |       |       |       | 1,380 | 54.33 | 1,268 | 49.92 | 235               | 518 | 900            | 1,985 |
| 48" (HIGH)    | 4     | 48     | 443 | 17.44 | 1,408 | 55.43 | 1,417 | 55.79 | 1,268 | 49.92 | 235.5             | 519 | 900            | 1,985 |

\* Media weight based on Silica 16

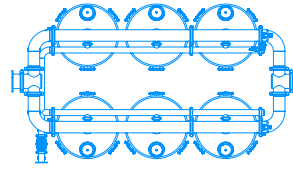


## → Configurations

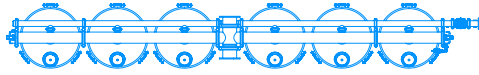
Straight-Line  
Number of tanks: 2-5



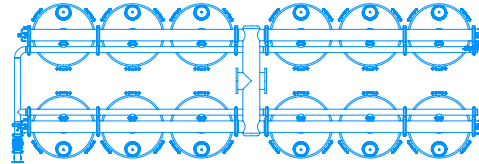
Parallel  
Number of tanks: 5 and up



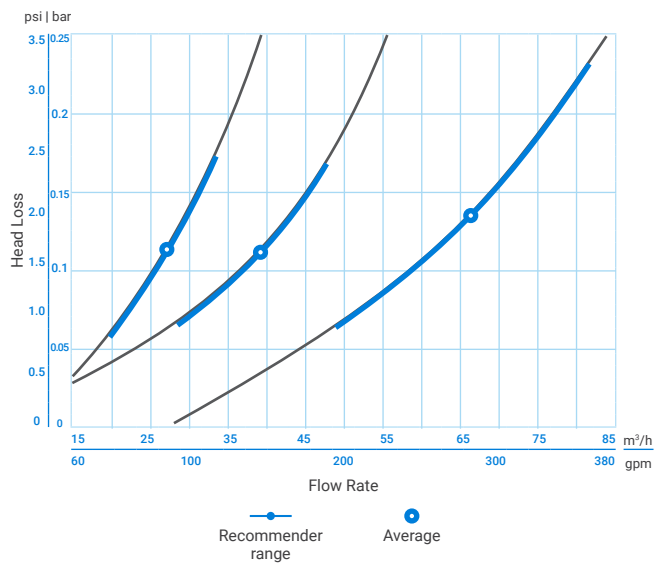
Straight-Line Center Feed  
Number of tanks: 5-10



H-System  
Number of tanks: 5 and up



## → Head Loss





# Sandstorm™ NC

## NON CORROSIVE SINGLE CHAMBER MEDIA FILTER

Made of robust high-quality, non-corrosive materials. Its modular design allows for easy assembly and flexible expansion. Built for long term high performance, backed by a lifetime anti-corrosion warranty protecting your irrigation system. Sandstorm™ NC durable design reduces annual operating expenses and increases the farms bottom line.



Maximum  
protection



Durable non-corrosive  
materials



Ease of  
operation

## / Benefits & Features

- **Maximum protection for irrigation systems** Irrigation with surface water containing high load of organic materials, silt & clay
- **Durable non-corrosive materials** The tank is made from PE liner strength with Aluminum collars and covered with glass fiber fabrics for maximum strength and protection
- **Easy to use** Simple to operate thanks to its low profile, light weight and large access ports
- **Multi size for tank diameter** Available in 36" and 48" tanks diameters
- **Suitable in challenging areas** For areas with high humidity and/or installations requires acids and other tough chemicals treatments
- **Flexible and modular design** Allows for future expansion as needed
- **Proven quality** Industry leading warranty

## / Applications

- ✓ Primary filtration for surface water sources: rivers, streams, canals, ponds, and reservoirs that contain organic material and in many cases silt and/or clay particles
- ✓ Multiple season micro irrigation systems with poor surface water quality
- ✓ Designed for fertilizer and acid use commonly found in agriculture irrigation practices
- ✓ Ideal for use in high humidity areas
- ✓ Irrigation water containing high levels of iron (with special media)

### → Hydraulic Performance

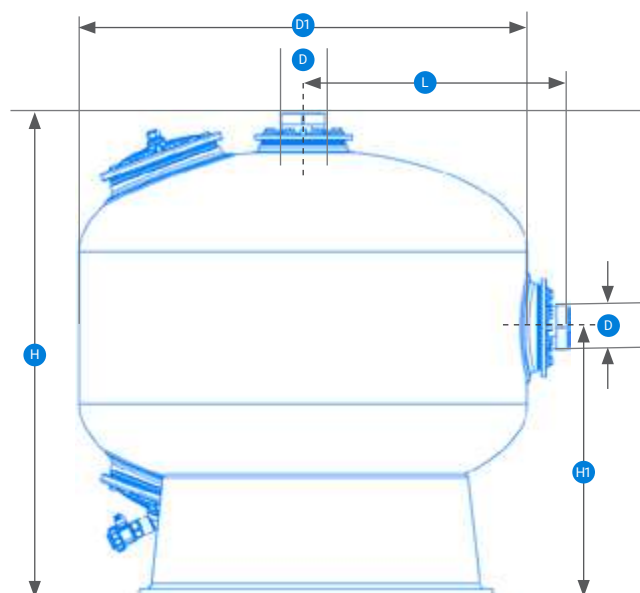
| Tank Diameter | Filtration Area |       | Maximum Flow Rate |     | Back Flush Flow Rate |     |           |     | Minimum Back Flush Pressure (bar/psi) | Maximum Operating Pressure (bar/psi) |
|---------------|-----------------|-------|-------------------|-----|----------------------|-----|-----------|-----|---------------------------------------|--------------------------------------|
|               |                 |       |                   |     | Basalt Number 1      |     | Silica 16 |     |                                       |                                      |
|               | m²              | ft²   | m³/h              | gpm | m³/h                 | gpm | m³/h      | gpm |                                       |                                      |
| 36"           | 0.64            | 6.98  | 45                | 198 | 35                   | 154 | 19        | 84  | 2/29                                  | 6/87                                 |
| 48"           | 1.09            | 11.73 | 80                | 352 | 65                   | 286 | 36        | 159 |                                       |                                      |

\* Maximum recommended flow rate is based on good water quality and calculated with velocity of 70 m/hr (0.064 ft/sec)

### → Technical Dimensions

| Tank Diameter | D (in.) | D1 (in.) | H     |       | H1  |       | L   |       | Empty Tank Weight |     | Sand Quantity |       |
|---------------|---------|----------|-------|-------|-----|-------|-----|-------|-------------------|-----|---------------|-------|
|               |         |          | mm    | in.   | mm  | in.   | mm  | in.   | kg                | lb  | kg            | lb    |
| 36"           | 3       | 36       | 1,265 | 49.8  | 690 | 27.17 | 523 | 20.59 | 120               | 265 | 425           | 937   |
| 48"           | 4       | 48       | 1,310 | 51.57 | 715 | 28.15 | 675 | 26.57 | 165               | 364 | 750           | 1,654 |

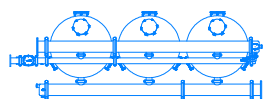
\* Media weight based on Silica 16



## → Configurations

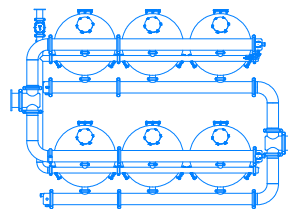
Straight-Line

Number of tanks: 2-5



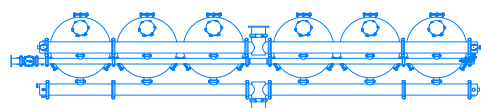
Parallel

Number of tanks: 5-10



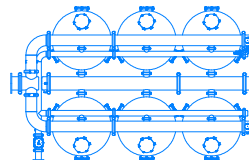
Straight-Line Center Feed

Number of tanks: 5-10

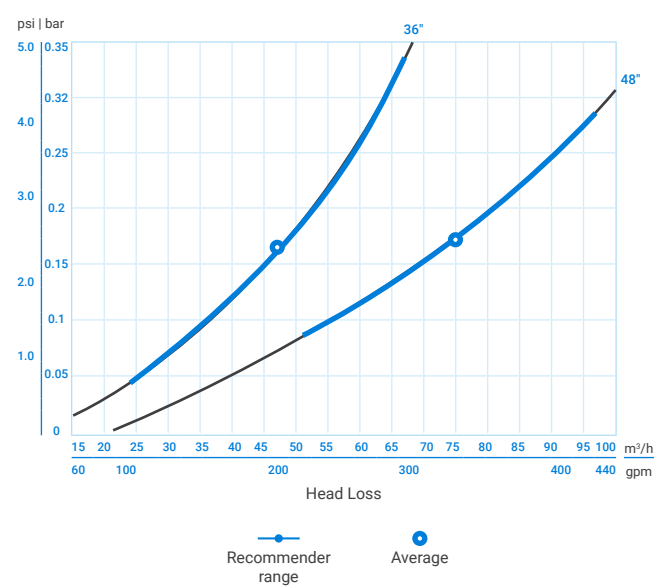


Parallel Centered

Number of tanks: 5-10



## → Head Loss





# Media Filters

## Description Guide

Sample Description

**MT<sup>1</sup> D<sup>2</sup> 48<sup>3</sup>06<sup>4</sup>10<sup>5</sup> CP<sup>6</sup> D16<sup>7</sup> BFC DC SOLDC<sup>8</sup> WG<sup>9</sup> 8<sup>10</sup> SG1<sup>11</sup>**

### 1 Family

|           |                 |
|-----------|-----------------|
| <b>MT</b> | Sandstorm metal |
| <b>NC</b> | Sandstorm NC    |

### 2 Tank Diameter

|          |                |
|----------|----------------|
| <b>D</b> | Double chamber |
| <b>S</b> | Single chamber |

### 3 Tank Diameter

|           |     |
|-----------|-----|
| <b>12</b> | 12" |
| <b>16</b> | 16" |
| <b>20</b> | 20" |
| <b>24</b> | 24" |
| <b>30</b> | 30" |
| <b>36</b> | 36" |
| <b>48</b> | 48" |
| <b>60</b> | 60" |

### 4 Number of Units

|           |    |
|-----------|----|
| <b>01</b> | 1  |
| <b>02</b> | 2  |
| <b>03</b> | 3  |
| <b>04</b> | 4  |
| <b>05</b> | 5  |
| <b>06</b> | 6  |
| <b>07</b> | 7  |
| <b>08</b> | 8  |
| <b>09</b> | 9  |
| <b>10</b> | 10 |
| <b>11</b> | 11 |
| <b>12</b> | 12 |
| <b>13</b> | 13 |
| <b>14</b> | 14 |
| <b>15</b> | 15 |
| <b>16</b> | 16 |

### 5 In/Out Diameter

|           |     |
|-----------|-----|
| <b>03</b> | 3"  |
| <b>04</b> | 4"  |
| <b>06</b> | 6"  |
| <b>08</b> | 8"  |
| <b>10</b> | 10" |
| <b>12</b> | 12" |
| <b>14</b> | 14" |
| <b>16</b> | 16" |

### 6 Configuration

|           |                   |
|-----------|-------------------|
| <b>S</b>  | Straight          |
| <b>C</b>  | Center feed       |
| <b>H</b>  | H Manifold        |
| <b>P</b>  | Parallel          |
| <b>CP</b> | Centered parallel |

### 7 Connection Type

|            |            |
|------------|------------|
| <b>D10</b> | DIN/ISO 10 |
| <b>D16</b> | DIN/ISO 16 |
| <b>ANS</b> | ANSI       |
| <b>BSD</b> | BSTD       |
| <b>VIC</b> | VICTAULIC  |

### 8 Controller Type

|                     |                              |
|---------------------|------------------------------|
| <b>BFC DC SOLDC</b> | DC controller + DC solenoids |
| <b>BFC AC SOLDC</b> | AC controller + DC solenoids |
| <b>SOL DC+DP</b>    | DC solenoids + DP sensor     |
| <b>SOL AC+DP</b>    | AC solenoids + DP sensor     |
| <b>SOL DC</b>       | DC solenoids                 |
| <b>SOL AC</b>       | AC solenoids                 |
| <b>W/O CONT</b>     | Without controller           |

### 9 Media

|           |               |
|-----------|---------------|
| <b>WG</b> | With media    |
| <b>NG</b> | Without media |

### 10 Pressure Grade

|           |                |
|-----------|----------------|
| <b>6</b>  | 6bar / 85psi   |
| <b>8</b>  | 8bar / 115psi  |
| <b>10</b> | 10bar / 140psi |
| <b>16</b> | 16bar / 250psi |

### 11 Extras

|            |                     |
|------------|---------------------|
| <b>SG1</b> | 1 Secondary filter  |
| <b>SG2</b> | 2 Secondary filters |
| <b>SG3</b> | 3 Secondary filters |
| <b>SG4</b> | 4 Secondary filters |
| <b>SG5</b> | 5 Secondary filters |

### Standards

- All systems with Dorot metal back flush valves
- All systems with controller are combined (AC/DC) filtron 110 (with or without AC adaptor)
- All systems with controller come with Aquative DC solenoids
- All systems with controller come with 8mm PE tubes
- All standard system are PN8
- All systems with gravel come with Basalt number 1

# / Disc Filters



# AlphaDisc™ Disc Filters

## LEAN & MEAN FILTRATION MACHINE

The ultimate irrigation system protection thanks to a combination of precise depth filtration, high dirt-holding capacity and a unique easy-to-scale modular design that covers a wide range of flow rates or water quality needs. AlphaDisc™ prevents clogging and partial clogging, ensuring system longevity, and uniformly irrigated crops leading to better ROI, cost saving and peace of mind.



High  
efficiency



High dirt-holding  
capacity



Modular  
& flexible

## / Benefits & Features

- **Superb efficiency** Unique and improved disc design with precise filtration grade through all depths of the disc ensuring better clogging protection
- **Industry leader** High dirt-holding capacity and high filtration volume and area, coupled with lowest head loss in the industry, ensures higher particles capture, fewer backflush cycles, and less downstream disruption
- **Hyper modular** Unique modular design offers easy scalability as your needs evolve
- **Cost-effective** Low backflush flow rate and low head loss result in a significantly more profitable irrigation system
- **Innovative** AlphaDisc™ smart controller with “always on” access to filtration data; IP65 rating
- **Smaller footprint** Vertical installation for a well-designed, more cost-effective irrigation room
- **Multiple configurations** Inline, online and angle configuration (single unit); easily adapted to any system configurations
- **Made to last** Durable and long-lasting product made from anticorrosive materials

# / Applications

- ✓ Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

## → Configurations



Single 3"



Dual 4"



Trio 6"



Single XL 3"/4"



Dual XL 6"



Trio XL 8"

## → Additional Configurations



Dual on Dual XL



Dual on Trio XL



Trio on Trio XL

## → Recommended Flow Rate

for Single 3", Dual 4", Trio 6" (flow rate per filter unit)

|                  |      | Excellent | Good | Average | Poor | Very poor |
|------------------|------|-----------|------|---------|------|-----------|
| 100mic / 140mesh | m³/h | 50        | 43   | 35      | 27.5 | 20        |
|                  | gpm  | 220       | 187  | 154     | 121  | 88        |
| 130mic / 120mesh | m³/h | 50        | 44   | 38      | 31   | 25        |
|                  | gpm  | 220       | 193  | 165     | 138  | 110       |
| 200mic / 80mesh  | m³/h | 50        | 45   | 40      | 35   | 30        |
|                  | gpm  | 220       | 198  | 176     | 154  | 132       |

for Single XL 3" (flow rate per filter unit)

|                  |      | Excellent | Good | Average | Poor | Very poor |
|------------------|------|-----------|------|---------|------|-----------|
| 100mic / 140mesh | m³/h | 80        | 68   | 56      | 44   | 32        |
|                  | gpm  | 352       | 299  | 246     | 194  | 141       |
| 130mic / 120mesh | m³/h | 80        | 70   | 60      | 50   | 40        |
|                  | gpm  | 352       | 308  | 264     | 220  | 176       |
| 200mic / 80mesh  | m³/h | 80        | 72   | 64      | 56   | 48        |
|                  | gpm  | 352       | 317  | 282     | 246  | 211       |

for Single XL 4", Dual XL 6", Trio XL 8" (flow rate per filter unit)

|                  |      | Excellent | Good | Average | Poor | Very poor |
|------------------|------|-----------|------|---------|------|-----------|
| 100mic / 140mesh | m³/h | 110       | 94   | 77      | 60.5 | 44        |
|                  | gpm  | 480       | 408  | 336     | 264  | 192       |
| 130mic / 120mesh | m³/h | 110       | 96   | 83      | 69   | 55        |
|                  | gpm  | 480       | 420  | 360     | 300  | 240       |
| 200mic / 80mesh  | m³/h | 110       | 99   | 88      | 77   | 66        |
|                  | gpm  | 480       | 432  | 384     | 336  | 288       |

For additional configurations, please contact Netafim representative



## → Technical Specifications

|              | Filtration Area |                 | Filtration Volume |                 | Inlet/Outlet Diameter |     | Connection Type            | Maximum Operating Pressure |     | Weight (Empty) |     |
|--------------|-----------------|-----------------|-------------------|-----------------|-----------------------|-----|----------------------------|----------------------------|-----|----------------|-----|
|              | cm <sup>2</sup> | in <sup>2</sup> | cm <sup>3</sup>   | in <sup>3</sup> | inch                  | mm  |                            | bar                        | psi | kg             | lb  |
| Single 3"    | 1,760           | 272             | 2,296             | 140             | 3                     | 80  | Grooved / Universal flange | 10                         | 145 | 54             | 118 |
| Single XL 3" | 5,240           | 812             | 6,284             | 383             | 3                     | 80  |                            |                            |     | 57             | 126 |
| Single XL 4" | 5,240           | 812             | 6,284             | 383             | 4                     | 100 |                            |                            |     | 58             | 129 |
| Dual 4"      | 3,520           | 545             | 4,592             | 280             | 4                     | 100 |                            |                            |     | 115            | 253 |
| Dual XL 6"   | 10,480          | 1,624           | 12,568            | 766             | 6                     | 150 | Universal flange           |                            |     | 127            | 279 |
| Trio 6"      | 5,280           | 818             | 6,888             | 420             | 6                     | 150 |                            |                            |     | 156            | 344 |
| Trio XL 8"   | 15,720          | 2,437           | 18,852            | 1,150           | 8                     | 200 |                            |                            |     | 182            | 401 |

For other configurations, please contact a Netafim representative.

## → Construction Materials and Temperature

|                       |                                      |
|-----------------------|--------------------------------------|
| Filter Housing & Lid  | RPA (reinforced polyamide)           |
| Discs                 | PP (polypropylene) or PA (polyamide) |
| Cleaning Mechanism    | All polymeric                        |
| Exhaust Valve         | All polymeric                        |
| Seals                 | EPDM                                 |
| Operating Temperature | 5-60C (40-140F)                      |

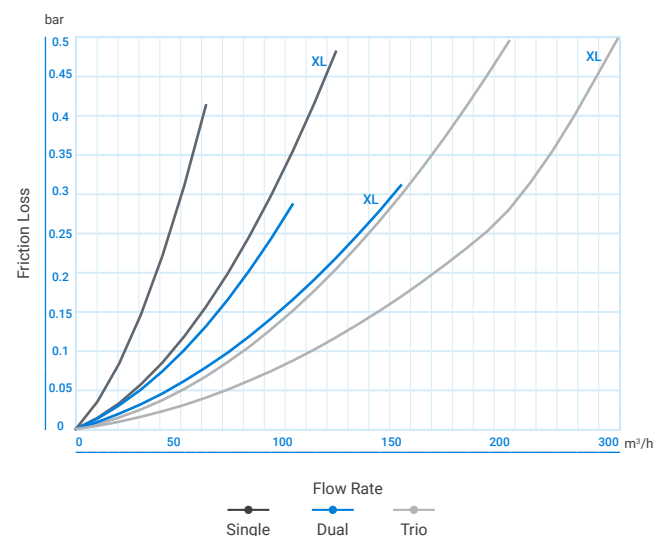
## → Flushing data

|              | Minimum Pressure for Back Flush |     | Back Flush Flow Rate* |      | Recommended Flushing Time | Reject Water Volume per Flush Cycle* |        | Back Flush Manifold Diameter |    | Back Flush Manifold Connection Type |
|--------------|---------------------------------|-----|-----------------------|------|---------------------------|--------------------------------------|--------|------------------------------|----|-------------------------------------|
|              | bar                             | psi | m <sup>3</sup> /h     | gpm  |                           | liters                               | galons | inch                         | mm |                                     |
| Single 3"    | 1.5                             | 22  | 7.2                   | 31.7 | 18sec                     | 36                                   | 9.5    | 3                            | 80 | Grooved / Flanged                   |
| Single XL 3" |                                 |     | 13                    | 57.2 |                           | 65                                   | 17.2   |                              |    |                                     |
| Single XL 4" |                                 |     | 13                    | 57.2 |                           | 65                                   | 17.2   |                              |    |                                     |
| Dual 4"      |                                 |     | 7.2                   | 31.7 |                           | 36                                   | 9.5    |                              |    |                                     |
| Dual XL 6"   |                                 |     | 13                    | 57.2 |                           | 65                                   | 17.2   |                              |    |                                     |
| Trio 6"      |                                 |     | 7.2                   | 31.7 |                           | 36                                   | 9.5    |                              |    |                                     |
| Trio XL 8"   |                                 |     | 13                    | 57.2 |                           | 65                                   | 17.2   |                              |    |                                     |

\* At 1.5bar (22psi).

\* High back flush pressure can cause excessive wear on AlphaDisc™ discs and spine. It is not recommended that back flush pressure will exceed 7bar. If back flush pressure is higher, installation of an orifice valve in the drain manifold is recommended. Please contact Netafim for additional information

## → Head Loss



# AlphaDisc™

## Description Guide

SAMPLE DESCRIPTION

**AD<sup>1</sup> SNG 3" O/L<sup>2</sup> UNF<sup>3</sup> 130MC<sup>4</sup> BLE DC<sup>5</sup>**

### 1 Brand

|    |           |
|----|-----------|
| AD | ALPHADISC |
|----|-----------|

### 2 Model & Configuration

|                  |  |
|------------------|--|
| SNG 3" I/L       | Single inline with 2" spines                 |
| SNG 3" O/L       | Single online with 2" spines                 |
| SNG 3" ANG       | Single angle with 2" spines                  |
| SNG 3" R/ANG     | Single reverse angle with 2" spines          |
| SNG 3" XL I/L    | Single low flow inline with 4" spines        |
| SNG 3" XL O/L    | Single low flow online with 4" spines        |
| SNG 3" XL ANG    | Single low flow angle with 4" spines         |
| SNG 3" XL R/ANG  | Single low flow reverse angle with 4" spines |
| SNG 4" XL I/L    | Single XL inline with 4" spines              |
| SNG 4" XL O/L    | Single XL online with 4" spines              |
| SNG 4" XL ANG    | Single XL angle with 4" spines               |
| SNG 4" XL R/ANG  | Single XL reverse angle with 4" spines       |
| DUO 4"           | Dual system with 2" spines                   |
| DUO 6" XL        | Dual XL system with 4" spines                |
| TRI 6"           | Trio system with 2" spines                   |
| TRI 8" XL        | Trio XL system with 4" spines                |
| DUO 6"/DUO 6" XL | Dual on dual XL system with 4" spines        |
| TRI 8"/DUO 6" XL | Trio on dual XL system with 4" spines        |
| TRI 8"/TRI 8" XL | Trio on trio XL system with 4" spines        |
| DUO 6" XL-1      | Dual XL -1 system with 4" spines             |
| TRI 8" XL-1      | Trio XL -1 system with 4" spines             |
| DU 6"/DU 6" XL-1 | Dual on dual XL -1 system with 4" spines     |
| TR 8"/DU 6" XL-1 | Trio on dual XL -1 system with 4" spines     |
| TR 8"/TR 8" XL-1 | Trio on trio XL -1 system with 4" spines     |

### 3 Inlet/Outlet Type

|     |                  |
|-----|------------------|
| VIC | Victaulic        |
| UNF | Universal Flange |
| BS  | BSTD             |
| ANS | ANSI             |
| D10 | ISO10            |
| D16 | ISO16            |

### 4 Filtration Grade

|       |           |
|-------|-----------|
| 100MC | 100micron |
| 130MC | 130micron |
| 200MC | 200micron |
| 400MC | 400micron |

### 5 Controller & Voltage

|        |                                  |
|--------|----------------------------------|
| BLE DC | BLE controller with DC solenoids |
| CLD DC | CLD controller with DC solenoids |
| DC SOL | DC solenoids only                |
| AC SOL | AC solenoids only                |
| AC/DP  | DC solenoids and DP sensor       |
| DC/DP  | AC solenoids and DP sensor       |

### 6 Extras

|     |                 |
|-----|-----------------|
| SEA | Sea water       |
| EXT | External source |
| AIR | Air activation  |

### Standards

- All controllers are DC controller which need an AC/DC adapter if AC voltage is required
- All systems with controller will arrive with D75-A3P 12 VDC solenoid
- All system are PN10 with a minimum back flush pressure of 1.5bar

# 2" SpinKlin™ Disc Filters

Modular, all polymeric, automatic disc filters with a patented self-cleaning backwash mechanism.



High  
efficiency



Durable non-corrosive  
materials



Modular  
& flexible

## / Benefits & Features

- **High filtration efficiency** Provides maximum protection for your irrigation systems
- **Modular design** Enables easy installation and expansion
- **Anti-corrosive materials** Long-lasting product
- **Available for low- and high-pressure** Allows water and energy savings
- **Small footprint** Saves valuable space
- **Backwash process** Short and efficient

## / Specifications

- **Maximum Operating Pressure:**  
High pressure model: 10bar/140psi  
Low pressure model: 6bar/85psi
- **Minimum Backflush Pressure Required:**  
High pressure model: 2.8bar/40psi  
Low pressure model: 1.5bar/21psi
- **Minimum Allowable pH: 5**

# / Applications

- ✓ Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

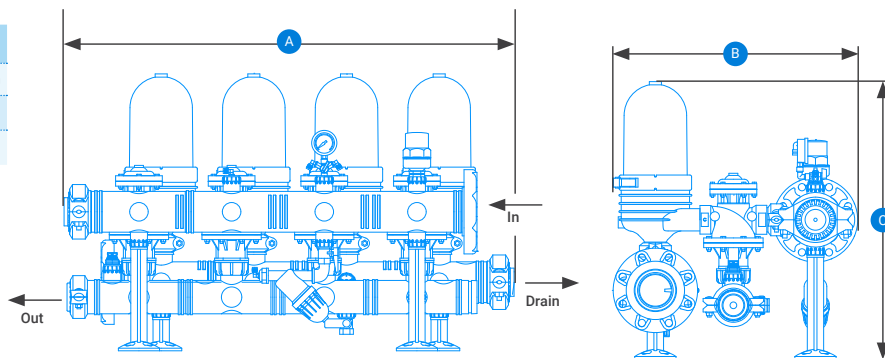
## → Technical Details

|   |         | 2 Units        | 3 Units  | 4 Units  |
|---|---------|----------------|----------|----------|
| Max Pressure                                |         | 10bar / 150psi |          |          |
| Min. Back Flush Pressure                    |         | 2.8bar / 40psi |          |          |
| Recommended Flow Rate<br>(100, 130 microns) | Average | 24m³/h         | 36m³/h   | 48m³/h   |
|   | poor    | 20m³/h         | 30m³/h   | 40m³/h   |
| Filtration Area                             |         | 1,760cm²       | 2,640cm² | 3,520cm² |
| Inlet/Outlet Diameter                       |         | 3"             | 4"       | 4"       |
| Back Flush Flow Rate                        |         | 10m³/h         |          |          |

\* Additional configurations are available upon request

## → Dimensions

|          | 2 Units     | 3 Units     | 4 Units       |
|----------|-------------|-------------|---------------|
| A Length | 706mm (28") | 964mm (38") | 1,214mm (48") |
| B Width  | 660mm (26") |             |               |
| C Height | 747mm (30") |             |               |



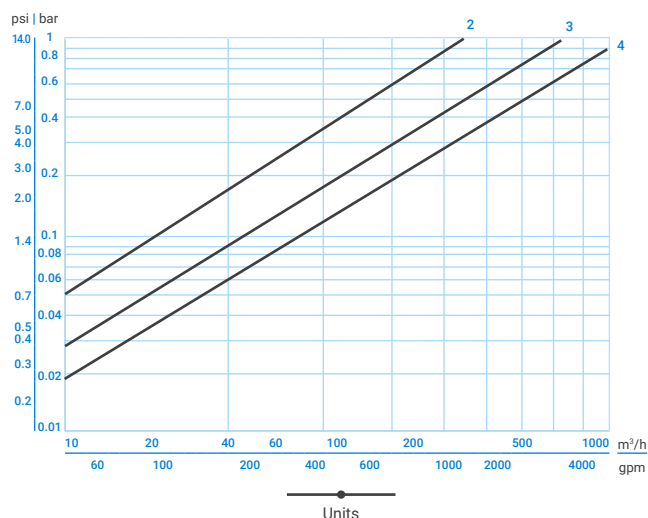
## → Water Quality

| Water Quality | Filtration Velocity | 2" Spin Klin™ |
|---------------|---------------------|---------------|
| Good          | 170                 | 15            |
| Average       | 135                 | 12            |
| Poor          | 110                 | 10            |

## → Disc Color / Mesh / micron

| Model  | Blue | Yellow | Red | Black |
|--------|------|--------|-----|-------|
| Mesh   | 40   | 80     | 120 | 140   |
| micron | 400  | 200    | 130 | 100   |

## → Head Loss



\* Headloss is based on a 130 micron disc

## → Logistic Data

| Units | In/Out Manifolds | Catalog Number | Description                               |
|-------|------------------|----------------|---|
| 1     | 2"               | 70605-001005   | AK SK S 122 T<br>130MIC F110AC<br>SOL DC  |
| 2     | 3"               | 70605-001370   | AK SK S 223 UF<br>130MIC F110AC<br>SOL DC |
| 3     | 4"               | 70605-002850   | AK SK S 324 UF<br>130MIC F110AC<br>SOL DC |
| 4     | 4"               | 70605-005450   | AK SK S 424 UF<br>130MIC F110AC<br>SOL DC |

\* Items in the table refer to filtration grade of 130 micron  
\*\* Additional filtration grades are available upon request



# 3" SpinKlin™ Disc Filters

Modular, all polymeric, automatic disc filters with a patented self-cleaning backwash mechanism.



High  
efficiency



Durable non-corrosive  
materials



Modular  
& flexible

## / Benefits & Features

- **High filtration efficiency** Provides maximum protection for your irrigation systems
- **Modular design** Enables easy installation and expansion
- **Anti-corrosive materials** Long-lasting product
- **Available for low- and high-pressure** Allows water and energy savings
- **Small footprint** Saves valuable space
- **Backwash process** Short and efficient

## / Specifications

- **Maximum Operating Pressure:**  
High pressure model: 10bar/140psi  
Low pressure model: 6bar/85psi
- **Minimum Backflush Pressure Required:**  
High pressure model: 2.8bar/40psi  
Low pressure model: 1.5bar/21psi
- **Minimum Allowable pH: 5**

# / Applications

- ✓ Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

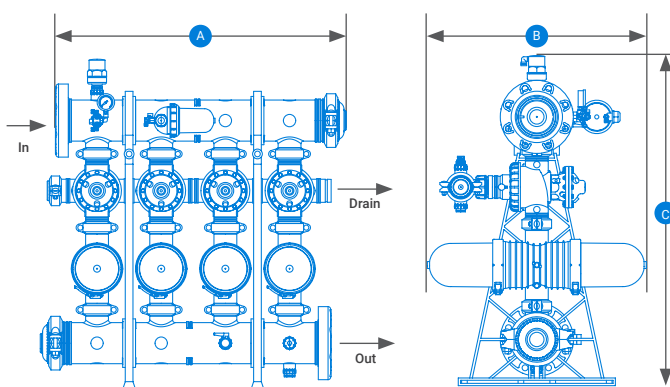
## → Technical Details

|   |         | 3 Units        | 4 Units  | 5 Units   |
|---|---------|----------------|----------|-----------|
| Max Pressure                                |         | 10bar / 150psi |          |           |
| Min Back Flush Pressure                     |         | 2.8bar / 40psi |          |           |
| Recommended Flow Rate<br>(100, 130 microns) | Average | 90m³/h         | 120m³/h  | 150m³/h   |
|   | Poor    | 72m³/h         | 96m³/h   | 120m³/h   |
| Filtration Area                             |         | 5,280cm²       | 7,040cm² | 8,800m²/h |
| Inlet/Outlet Diameter                       |         | 6"             |          |           |
| Back Flush Flow Rate                        |         | 20m³/h         |          |           |

\* Additional configurations are available upon request

## → Dimensions

|          | 3 Units            | 4 Units            | 5 Units            |
|----------|--------------------|--------------------|--------------------|
| A Length | 942mm (37 3/32")   | 1192mm (46 15/16") | 1442mm (56 25/32") |
| B Width  | 1442mm (56 25/32") |                    |                    |
| C Height | 1287mm (50 21/32") |                    |                    |



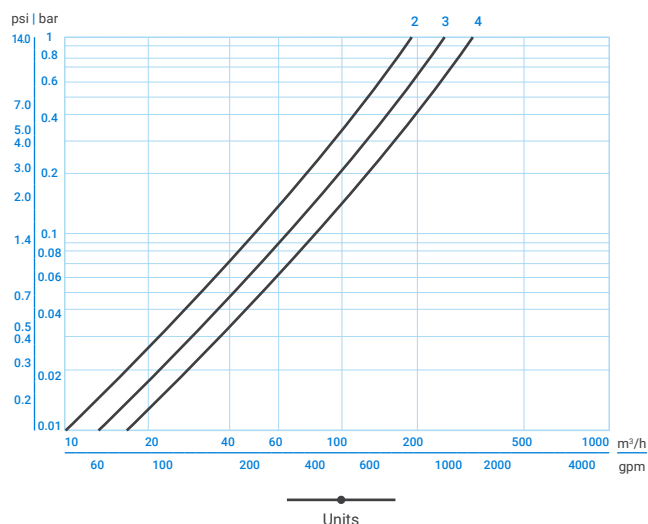
## → Water Quality

| Water Quality | Filtration Velocity | 3" Spin Klin™ |
|---------------|---------------------|---------------|
| Good          | 170                 | 15            |
| Average       | 135                 | 12            |
| Poor          | 110                 | 10            |

## → Disc Color / Mesh / micron

| Model  | Blue | Yellow | Red | Black |
|--------|------|--------|-----|-------|
| Mesh   | 40   | 80     | 120 | 140   |
| micron | 400  | 200    | 130 | 100   |

## → Head Loss



\* Headloss is based on a 130 micron disc

## → Logistic Data

| Units | In/Out Manifolds | Catalog Number | Description                            |
|-------|------------------|----------------|--|
| 3     | 6"               | 70605-004320   | AK SK S 336 UF 130MIC F110AC SOL DC    |
| 4     | 6"               | 70605-007020   | AK SK S 436 UF 130MIC F110AC SOL DC    |
| 5     | 6"               | 70605-009720   | AK SK S 536 UF 130MIC F110AC SOL DC    |
| 6     | 6"               | 70605-012820   | AK SK S 636 UF 130MIC F110AC SOL DC    |
| 7     | 6"               | 70605-025235   | AK SK S 736 UF 130MIC F1-10AC SOL DC B |

\* Items in the table refer to filtration grade of 130 micron

\*\* Additional filtration grades are available upon request

# 3" SpinKlin™ Apollo Disc Filters

Modular, all polymeric, automatic disc filters with a patented self-cleaning backwash mechanism.



High efficiency



Durable non-corrosive materials



Modular & flexible

## / Benefits & Features

- **High filtration efficiency** Provides maximum protection for your irrigation systems
- **Modular design** Enables easy installation and expansion
- **Anti-corrosive materials** Long-lasting product
- **Available for low- and high-pressure** Allows water and energy savings
- **Small footprint** Saves valuable space
- **Backwash process** Short and efficient

## / Specifications

- **Maximum Operating Pressure:**  
High pressure model: 10bar/140psi  
Low pressure model: 6bar/85psi
- **Minimum Backflush Pressure Required:**  
High pressure model: 2.1bar/30psi  
Low pressure model: 1.5bar/21psi
- **Minimum Allowable pH: 5**

# / Applications

- ✓ Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

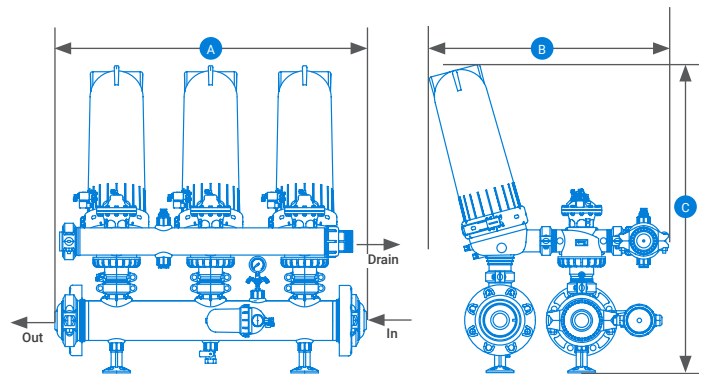
## → Technical Details

|  |         | 3 Units        | 4 Units   | 5 Units    | 6 Units   |
|--|---------|----------------|-----------|------------|-----------|
| Max Pressure                               |         | 10bar / 150psi |           |            |           |
| Min Back Flush Pressure                    |         | 2bar / 30psi   |           |            |           |
| Recommended Flow Rate<br>(100, 130microns) | Average | 105m³/h        | 140m³/h   | 175m³/h    | 210m³/h   |
|  | Poor    | 90m³/h         | 120m³/h   | 150m³/h    | 180m³/h   |
| Filtration Area                            |         | 7,860cm²       | 10,480cm² | 13,100m²/h | 15,720cm² |
| Inlet/Outlet Diameter                      |         | 6"             |           |            |           |
| Back Flush Flow Rate                       |         | 24m³/h         |           |            |           |

\* Additional configurations are available upon request

## → Dimensions

|         | A                    | B                   | C                      |
|---------|----------------------|---------------------|------------------------|
|         | Length               | Width               | Height                 |
| 3 Units | 1,160mm (45 21/32")  | 941mm<br>(37 1/16") | 1,218mm<br>(47 15/16") |
| 4 Units | 1,540mm (60 5/8")    |                     |                        |
| 5 Units | 1,920mm (75 19/32")  |                     |                        |
| 6 Units | 2,300mm (90 9/16")   |                     |                        |
| 7 Units | 2,680mm (105 1/2")   |                     |                        |
| 8 Units | 3,060mm (120 15/32") |                     |                        |



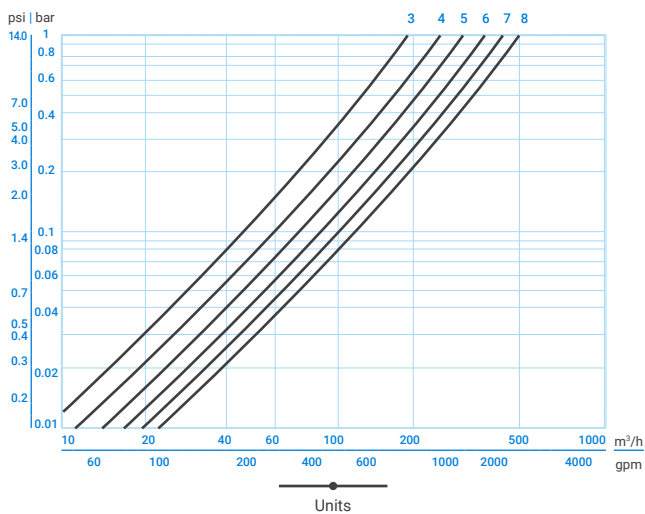
## → Water Quality

| Water Quality | Filtration Velocity | 3" Apollo Spin Klin™ |
|---------------|---------------------|----------------------|
| Good          | 170                 | 45                   |
| Average       | 135                 | 35                   |
| Poor          | 110                 | 29                   |

## → Disc Color / Mesh / micron

| Model  | Blue | Yellow | Red | Black |
|--------|------|--------|-----|-------|
| Mesh   | 40   | 80     | 120 | 140   |
| micron | 400  | 200    | 130 | 100   |

## → Head Loss



\* Headloss is based on a 130micron disc

## → Logistic Data

| Units | In/Out Manifolds | Conn. Type | Catalog Number | Description                          |
|-------|------------------|------------|----------------|--------------------------------------|
| 3     | 6"               |            | 70605-003687   | AK APN S 336 UF 130MIC F110DC SOL DC |
| 4     | 6"               |            | 70605-007760   | AK APN S 436 UF 130MIC F110DC SOL DC |
| 5     | 8"               | ANSI       | 70605-009088   | AK APN S 538 A 130MIC F110AC SOL DC  |
|       |                  | DIN        |                |                                      |
|       |                  | BSTD       |                |                                      |
| 6     | 8"               | ANSI       | 70605-013640   | AK APN S 638 A 130MIC F110AC SOL DC  |
|       |                  | DIN        | 70605-013685   | AK APN S 638 D 130MIC F110AC SOL DC  |
|       |                  | BSTD       |                |                                      |

\* Items in the table refer to filtration grade of 130 micron

\*\* Additional filtration grades are available upon request



# 4" SpinKlin™ Apollo Twin Disc Filters

Modular, all polymeric and automatic disc filters with a patented self-cleaning backwash mechanism.



High  
efficiency



Durable non-corrosive  
materials



Modular  
& flexible

## / Benefits & Features

- **High filtration efficiency** Provides maximum protection for your irrigation systems
- **Modular design** Enables easy installation and expansion
- **Anti-corrosive materials** Long-lasting product
- **Available for low- and high-pressure** Allow water and energy savings
- **Small footprint** Saves valuable space
- **Backwash process** Short and efficient

## / Specifications

- **Maximum Operating Pressure:**  
High pressure model: 10bar/140psi  
Low pressure model: 6bar/85psi
- **Minimum Backflush Pressure Required:**  
High pressure model: 2.1bar/30psi  
Low pressure model: 1.5bar/21psi
- **Minimum Allowable pH: 5**

# / Applications

- ✓ Primary or secondary automatic filter for maximum protection in systems irrigating with surface water that contains algae and other organic matter such as reservoirs, canals, rivers and wastewater applications.

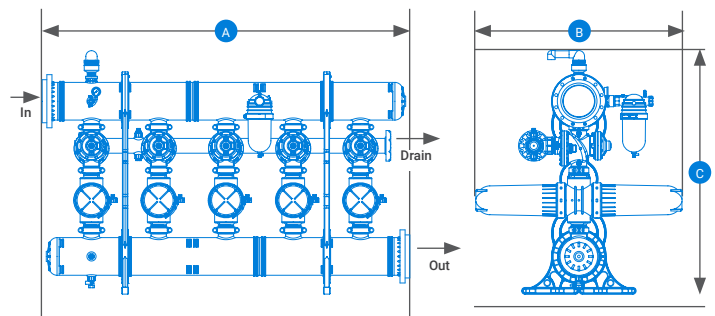
## → Technical Details

|  |         | 3 Units        | 4 Units   | 5 Units    | 6 Units   | 7 Units   | 8 Units   |
|--|---------|----------------|-----------|------------|-----------|-----------|-----------|
| Max Pressure                               |         | 10bar / 150psi |           |            |           |           |           |
| Min Back Flush Pressure                    |         | 2bar / 30psi   |           |            |           |           |           |
| Recommended Flow Rate<br>(100, 130microns) | Average | 210m³/h        | 280m³/h   | 350m³/h    | 420m³/h   | 490m³/h   | 560m³/h   |
|  | Poor    | 180m³/h        | 240m³/h   | 300m³/h    | 360m³/h   | 420m³/h   | 480m³/h   |
| Filtration Area                            |         | 15,720cm²      | 20,960cm² | 26,200m³/h | 31,440cm² | 36,680cm² | 41,920cm² |
| Back Flush Flow Rate                       |         | 48m³/h         |           |            |           |           |           |

\* Additional configurations are available upon request

## → Dimensions

|         | A              | B             | C             |
|---------|----------------|---------------|---------------|
|         | Length         | Width         | Height        |
| 3 units | 1,734mm (68")  | 1,531mm (60") | 1,810mm (71") |
| 4 units | 2,234mm (89")  |               |               |
| 5 units | 2,734mm (108") |               |               |
| 6 units | 3,234mm (127") |               |               |
| 7 units | 3,734mm (147") |               | 1,830mm (72") |
| 8 units | 4,234mm (166") |               |               |



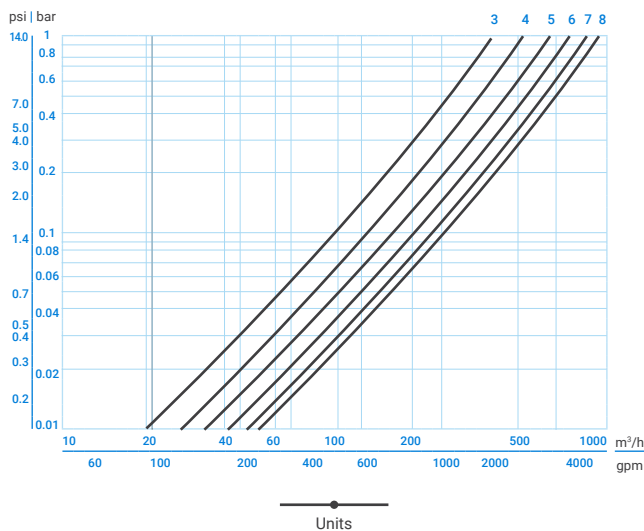
## → Water Quality

| Water Quality | Filtration Velocity | 4" Apollo Twin Spin Klin™ |
|---------------|---------------------|---------------------------|
| Good          | 170                 | 90                        |
| Average       | 135                 | 70                        |
| Poor          | 110                 | 50                        |

## → Disc Color / Mesh / micron

| Model  | Blue | Yellow | Red | Black |
|--------|------|--------|-----|-------|
| Mesh   | 40   | 80     | 120 | 140   |
| micron | 400  | 200    | 130 | 100   |

## → Head Loss



\* Headloss is based on a 130 micron disc

## → Logistic Data

| Units | In/Out Manifolds | Conn. Type | Catalog Number | Description                          |
|-------|------------------|------------|----------------|--------------------------------------|
| 3     | 8"               | ANSI       | 70605-030627   | AK APT S 348 A 130MIC F110AC SOL DC  |
|       |                  | DIN        | 70605-029010   | AK APT S 348 D 130MIC F110AC SOL DC  |
| 4     | 10"              | ANSI       | 70605-015230   | AK APT S 4410 A 130MIC F110AC SOL DC |
|       |                  | DIN        | 70605-015240   | AK APT S 4410 D 130MIC F110AC SOL DC |
| 5     | 10"              | ANSI       | 70605-015423   | AK APT S 5410 A 130MIC F110AC SOL DC |
|       |                  | DIN        | 70605-025450   | AK APT S 5410 D 130MIC F110AC SOL DC |
| 6     | 10"              | ANSI       | 70605-060995   | AK APT S 6410 A 130MIC F110AC SOL DC |
|       |                  | DIN        | 70605-015051   | AK APT S 6410 D 130MIC F110AC SOL DC |
| 7     | 12"              | ANSI       | 70605-015091   | AK APT S 7412 A 130MIC F110AC SOL DC |
|       |                  | DIN        | 70605-020583   | AK APT S 7412 D 130MIC F110AC SOL DC |
| 8     | 12"              | BSTD       | 70605-093250   | AK APT S 8412 B 130MIC F110AC SOL DC |

\* Items in the table refer to filtration grade of 130 micron

\*\* Additional filtration grades are available upon request

# SK, Apollo, Galaxy Description Guide

Sample description

**AK<sup>1</sup> APT<sup>2</sup> S<sup>3</sup> 4<sup>4</sup> 5<sup>10</sup> 6<sup>D7</sup> 130MIC<sup>8</sup> F110AC SOL DC<sup>9</sup> EXT<sup>10</sup>**

|                              |                          |                                     |   |                  |                 |
|------------------------------|--------------------------|-------------------------------------|---|------------------|-----------------|
| <b>1 Brand</b>               |                          | <b>6 Manifold Outlet Size</b>       |   | <b>10 Extras</b> |                 |
| AK                           | Arkai                    | 2                                   | 2"  | EXT              | External source |
| <b>2 Series</b>              |                          | 3                                   | 3"  | SEA              | Sea water       |
| SK                           | Spin Klin                | 4                                   | 4"  | AIR              | Air command     |
| APN                          | Apollo angle             | 6                                   | 6"  | MOD              | Modular         |
| APT                          | Apollo twin              | 8                                   | 8"  |                  |                 |
| GLX                          | Galaxy                   | 10                                  | 10"   |                  |                 |
| <b>3 Configuration</b>       |                          | 12                                  | 12"   |                  |                 |
| S                            | Standart (high pressure) | 14                                  | 14"   |                  |                 |
| L                            | LCE (low pressure)       |                                     |   |                  |                 |
| <b>4 Number of Units</b>     |                          | <b>7 Connection Type</b>            |   |                  |                 |
| 1                            | 1 unit                   | T                                   | Threaded BSP                                    |                  |                 |
| 2                            | 2 units                  | UF                                  | Universal flange (ARKAL)                        |                  |                 |
| 3                            | 3 units                  | V                                   | Victaulic                                       |                  |                 |
| 4                            | 4 units                  | A                                   | ASA (ANSI)                                      |                  |                 |
| 5                            | 5 units                  | B                                   | BSTD  |                  |                 |
| 6                            | 6 units                  | D                                   | DIN   |                  |                 |
| 7                            | 7 units                  |                                     |   |                  |                 |
| 8                            | 8 units                  | <b>8 Filtration Grade (microns)</b> |   |                  |                 |
|                              |                          | 400MIC                              | 400 MIC = 40mesh                                |                  |                 |
|                              |                          | 200MIC                              | 200 MIC = 80mesh                                |                  |                 |
|                              |                          | 130MIC                              | 130 MIC = 120mesh                               |                  |                 |
|                              |                          | 100MIC                              | 100 MIC = 140mesh                               |                  |                 |
| <b>5 Size of Basic Units</b> |                          | <b>9 Controller and Voltage</b>     |   |                  |                 |
| 2                            | 2"                       | F110AC SOL DC                       | Filtron 1-10 (Input 100-240 VAC, Output 12 VDC) |                  |                 |
| 3                            | 3"                       | F110DC SOL DC                       | Filtron 1-10 (Input 12 VDC, Output 12 VDC)      |                  |                 |
| 4                            | 4"                       | <b>Systems without Controller</b>   |   |                  |                 |
|                              |                          | SOL AC+DP                           | Solenoids Bacsol AC + united DP                 |                  |                 |
|                              |                          | SOL DC+DP                           | Solenoids Bacsol DC + united DP                 |                  |                 |
|                              |                          | SOL AC                              | Solenoids Bacsol AC without DP                  |                  |                 |
|                              |                          | SOL DC                              | Solenoids Bacsol DC without DP                  |                  |                 |
|                              |                          | W/O COMMAND                         | Without controller and solenoids                |                  |                 |

## Standards

- All systems come with bermad back flush plastic valves
- All twin systems come with inlet from the top manifold
- All systems with controller come with the combined (AC/DC) filtron 1-10 (with or without AC adaptor)
- All systems with controller come with bacsol DC solenoid
- All systems with controller come with 8mm PE tubes
- All systems without controller come with AC or DC solenoids (according to the request) and united DP
- All standard system are PN10, All LCE systems are PN6
- All flanges above 6" are DIN PN10 or ANSI 125 or BSTD (accordingly)

# Manual Disc Filters

$\frac{3}{4}$ ", 1", 1½"

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High  
efficiency



Durable  
materials

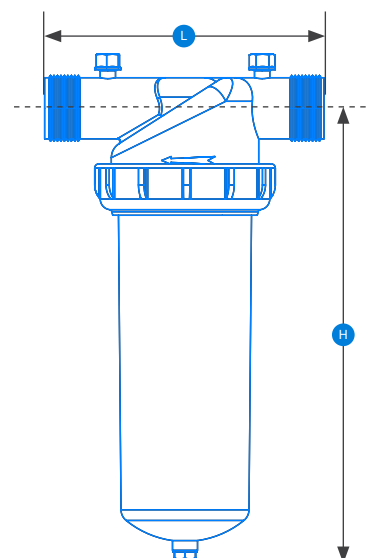
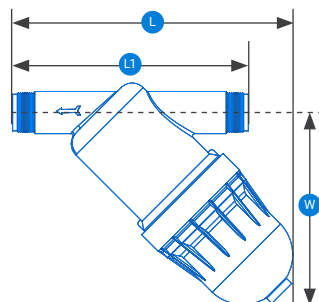


Ease of  
maintenance

## / Benefits & Features

- Innovative filter design      Captures and retains large amounts of solids
- Easy Operation      Does not require special tools
- High resistance      Excellent corrosion resistance
- Made to last      Long life span
- Sturdy      Polyamide housing - resist to harsh environmental conditions ( $\frac{3}{4}$ " PBT housing)

### → Technical Dimesions



NOTE: Technical dimension sktches are not in proportional view



→ Technical Data



3/4" W/O Valve, 3/4" Filtrap (with Valve)

|                                       | 3/4" w/o Valve |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 4m³/h          |
| Filtration Surface Area               | 160cm²         |
| Filtration Volume                     | 95cm³          |
| L - Distance Between Connections      | 151mm / 5.94"  |
| L1 - Total Length                     | 179mm / 7.04"  |
| H - Height                            | 122mm / 4.81"  |
| Weight                                | 0.37kg         |



1", 1" Super

|                                       | 1"            | 1" Super       |
|---------------------------------------|---------------|----------------|
| Max. Pressure                         | 10bar         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 6m³/h         | 8m³/h          |
| 55micron                              | 4m³/h         | 6m³/h          |
| Filtration Surface Area               | 306cm²        | 500cm²         |
| Filtration Volume                     | 360cm³        | 592cm³         |
| L - Distance Between Connections      | 158mm / 6.22" | 158mm / 6.22"  |
| H - Height                            | 212mm / 8.35" | 317mm / 12.49" |
| Weight                                | 1.1kg         | 1.4kg          |



1 1/2", 1 1/2" Super

|                                       | 1 1/2"        | 1 1/2" Super   |
|---------------------------------------|---------------|----------------|
| Max. Pressure                         | 10bar         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 8m³/h         | 12m³/h         |
| 55micron                              | 5m³/h         | 8m³/h          |
| Filtration Surface Area               | 306cm²        | 500cm²         |
| Filtration Volume                     | 360cm³        | 592cm³         |
| L - Distance Between Connections      | 201mm / 7.91" | 201mm / 7.91"  |
| H - Height                            | 219mm / 8.63" | 324mm / 12.77" |
| Weight                                | 1.3kg         | 1.5kg          |

# Manual Disc Filters

## 2" Dual Lite, 3" Twin Lite

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High  
efficiency



Durable  
materials

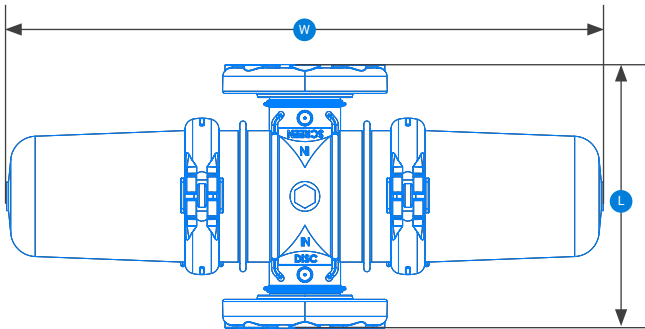
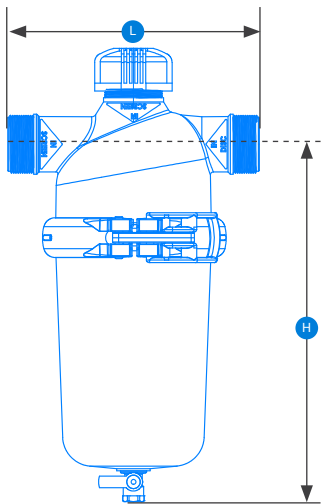


Ease of  
maintenance

## / Benefits & Features

- **Innovative filter design** Captures and retains large amounts of solids
- **Straightforward** Operation is easy and requires no special tools
- **Non-corrosive** Excellent corrosion resistance
- **Made to last** Long life span
- **Dual or Twin**
  - 2" Dual filter - Angle or In Line outlet options for maximum flexibility
  - 3" Twin filter - Largest filtration area of comparable products
- **Polyamide housing** Resistant to harsh environmental conditions (3/4" PBT housing)

→ Technical Dimesions



NOTE: Technical dimension sktches are not in proportional view

→ Technical Data

2" Dual Light



|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 8bar           |
| Flow Rate: 400-100micron (40-140mesh) | 25m³/h         |
| 70micron                              | 20m³/h         |
| 55micron                              | 17m³/h         |
| 20micron                              | 8m³/h          |
| Filtration Surface Area               | 950cm²         |
| Filtration Volume                     | 1,225cm³       |
| L - Distnce Between Connections       | 260mm / 10.24" |
| H - Height                            | 362mm / 14.2"  |
| Weight                                | 3kg            |



3" Twin Lite

|                                       |               |
|---------------------------------------|---------------|
| Max. Pressure                         | 8bar          |
| Flow Rate: 400-100micron (40-140mesh) | 50m³/h        |
| 70micron                              | 40m³/h        |
| 55micron                              | 34m³/h        |
| 20micron                              | 16m³/h        |
| Filtration Surface Area               | 1,900cm²      |
| Filtration Volume                     | 2,450cm³      |
| L - Distnce Between Connections       | 320mm / 12.6" |
| W - Filter Width                      | 724mm / 28.5" |
| Weight (Flanged)                      | 5.9kg         |

\* Measure are for reference only

# Manual Disc Filters

## 2", 3" LEADER

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High efficiency



Durable materials



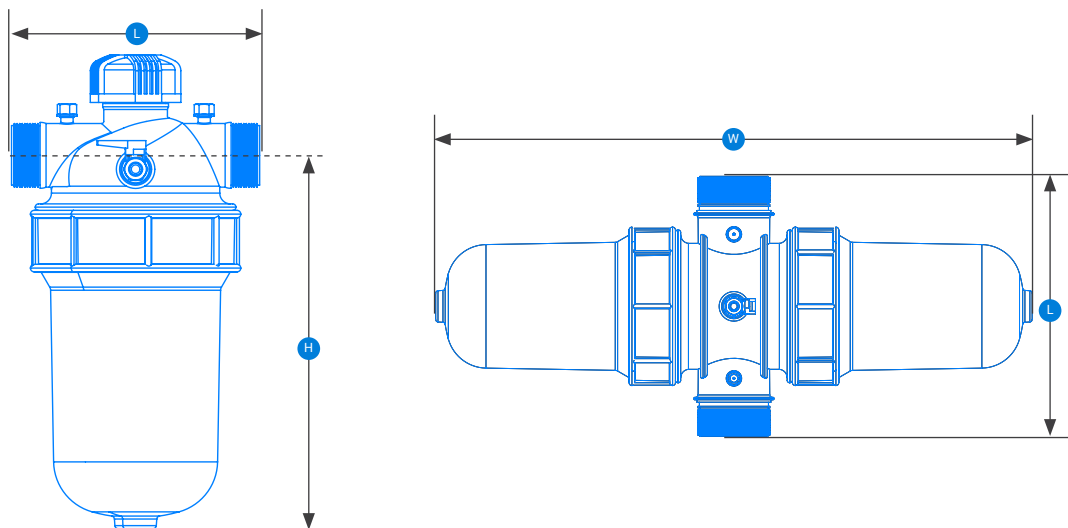
Ease of maintenance

## / Benefits & Features

- Innovative filter design Captures and retains large amounts of solids
- Easy to operate Requires no special tools
- Highly resistant Excellent corrosion resistance
- Durable Long life span
- Straightforward Easy to open, clean and close
- Fits with most nutrients Suitable for all commonly used fertilizers and acids
- high and low pH 2-13 Suitable for sea and brackish water
- Polypropylene housing Excellent chemical resistance



→ Technical Dimesions



NOTE: Technical dimension sktches are not in proportional view

→ Technical Data

2" Leader



|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 25m³/h         |
| 70micron                              | 20m³/h         |
| 55micron                              | 17m³/h         |
| 20micron                              | 8m³/h          |
| Filtration Surface Area               | 950cm²         |
| Filtration Volume                     | 1,225cm³       |
| L - Distance Between Connections      | 230mm / 9.06"  |
| H - Height                            | 346mm / 13.62" |
| Weight                                | 2kg            |

3" Leader



|                                       |                 |
|---------------------------------------|-----------------|
| Max. Pressure                         | 10bar           |
| Flow Rate: 400-100micron (40-140mesh) | 50m³/h          |
| 70micron                              | 40m³/h          |
| 55micron                              | 34m³/h          |
| 20micron                              | 16m³/h          |
| Filtration Surface Area               | 1,900cm²        |
| Filtration Volume                     | 2,450cm³        |
| L - Distance Between Connection       | 320mm / 12.6"   |
| W - Width                             | 734mm / 28.9"   |
| Distance Between End Connections      | A. 260mm B.76mm |
| Weight (Flanged)                      | 8kg             |
| Weight (Victaulic, Threaded)          | 6.3kg           |

\* Measeure are for reference only

# Manual Disc Filters

2", 3"

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High  
efficiency



Durable  
materials

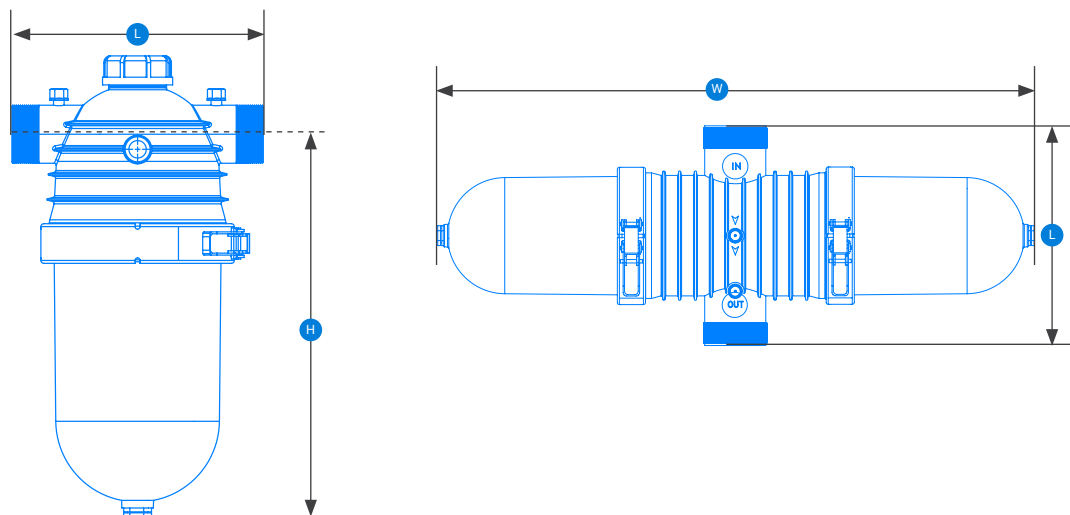


Ease of  
maintenance

## / Benefits & Features

- **Innovative filter design** Captures and retains large amounts of solids
- **Straightforward** Operation is easy and requires no special tools
- **Non-corrosive** Excellent corrosion resistance
- **Made to last** Long life span
- **Dual or Twin filter** 2" Dual filter - Angle or In Line outlet options for maximum flexibility  
3" Twin filter - Largest filtration area of comparable products
- **Polyamide housing** Resistant to harsh environmental conditions environmental conditions  
( $\frac{3}{4}$ " PBT housing)

→ Technical Dimesions



**NOTE:** Technical dimension sktches are not in proportional view

→ Technical Data

2" Dual



|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 25m³/h         |
| 70micron                              | 20m³/h         |
| 55micron                              | 17m³/h         |
| 20micron                              | 8m³/h          |
| Filtration Surface Area               | 950cm²         |
| Filtration Volume                     | 1,225cm³       |
| L - Distance Between Connections      | 260mm / 10.24" |
| H - Height                            | 395mm / 15.57" |
| Weight                                | 5kg            |

3" Twin



|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 50m³/h         |
| 70micron                              | 40m³/h         |
| 55micron                              | 34m³/h         |
| 20micron                              | 16m³/h         |
| Filtration Surface Area               | 1,900cm²       |
| Filtration Volume                     | 2,450cm³       |
| L - Distance Between End Connections  | 320mm / 12.6"  |
| W - Total Width                       | 870mm / 34.25" |
| Weight (Flanged)                      | 13.95kg        |
| Weight (Victaulic, Threaded)          | 9.85kg         |

# Manual Disc Filters

## 3", 4" SUPER ANGLE

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High  
efficiency



Durable  
materials

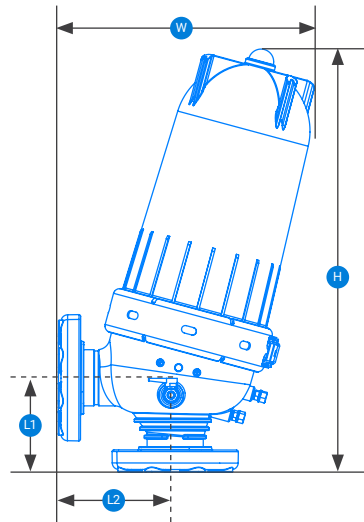


Ease of  
maintenance

## / Benefits & Features

- Innovative filter design Captures and retains large amounts of solids
- Easy to operate Requires no special tools
- Highly resistant Excellent corrosion resistance
- Durable Long life span
- Straightforward Easy to open, clean and close
- Fits with most nutrients Suitable for all commonly used fertilizers and acids
- high and low pH 2-13 Suitable for sea and brackish water
- Polypropylene housing Excellent chemical resistance

→ Technical Dimesions



NOTE: Technical dimension sktches are not in proportional view

→ Technical Data



3" Super Angle

|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 50m³/h         |
| 55micron                              | 35m³/h         |
| 20micron                              | 18m³/h         |
| Filtration Surface Area               | 1,852cm²       |
| Filtration Volume                     | 2,223cm³       |
| H - Filter Height                     | 669mm / 26.36" |
| W - Filter Width                      | 397mm / 15.65" |
| L1                                    | 149mm / 5.87"  |
| L2                                    | 158mm / 7.28"  |
| Weight (Flanged)                      | 12.25kg        |
| Weight (Victaulic, Threaded)          | 11.05kg        |



4" Super Angle

|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 60m³/h         |
| 55micron                              | 40m³/h         |
| 20micron                              | 20m³/h         |
| Filtration Surface Area               | 1,852cm²       |
| Filtration Volume                     | 2,223cm³       |
| H - Filter Height                     | 662mm / 26.07" |
| W - Filter Width                      | 397mm / 15.65" |
| L1                                    | 145mm / 5.71"  |
| L2                                    | 185mm / 7.28"  |
| Weight (Flanged)                      | 13.50kg        |
| Weight (Victaulic, Threaded)          | 11.40kg        |

\* Manifold construction material options: Polypropylene, Polyester Coated, Stainless Steel  
\* Measurements are for reference only



# Manual Disc Filters

## 4", 6" SUPER LEADER

Manual disc filters engineered for efficient operation year after year. Plastic rings stack together creating a cylindrical filter element. During filtration, the rings are compressed together effectively filtering the water and protecting the system from clogging.



High efficiency



Durable materials

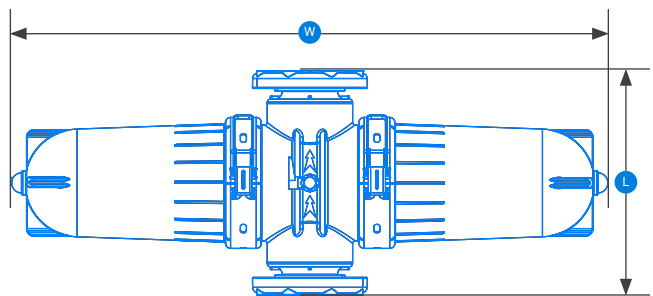


Ease of maintenance

## / Benefits & Features

- Innovative filter design Captures and retains large amounts of solids
- Easy to operate Requires no special tools
- Highly resistant Excellent corrosion resistance
- Durable Long life span
- Straightforward Easy to open, clean and close
- Fits with most nutrients Suitable for all commonly used fertilizers and acids
- high and low pH 2-13 Suitable for sea and brackish water
- Polypropylene housing Excellent chemical resistance

→ Technical Dimesions



NOTE: Technical dimension sktches are not in proportional view

→ Technical Data

4" Super Leader



|                                       |                |
|---------------------------------------|----------------|
| Max. Pressure                         | 10bar          |
| Flow Rate: 400-100micron (40-140mesh) | 110m³/h        |
| Filtration Surface Area               | 3,704cm²       |
| Filtration Volume                     | 4,446cm³       |
| L - Distance Between Connections      | 445mm / 17.52" |
| W - Filter Width                      | 1184m / 46.61" |
| Weight                                | 24.65kg        |

6" Super Leader



|                                       |                  |
|---------------------------------------|------------------|
| Max. Pressure                         | 10bar            |
| Flow Rate: 400-100micron (40-140mesh) | 160m³/h          |
| Filtration Surface Area               | 3,704cm²         |
| Filtration Volume                     | 4,446cm³         |
| L - Distance Between Connections      | 415mm / 16.34"   |
| W - Filter Width                      | 1,184mm / 46.61" |
| Weight                                | 26.40kg          |

# Screen Filters

# ScreenGuard™

## AUTOMATIC SCREEN FILTERS

Automatic screen filters provide perfect protection for irrigation systems thanks to extra-large filtration area. Screenguard™ also incorporate the most effective self-cleaning mechanism, saving labor, water and energy.



Corrosion & UV  
resistance



Bigger



Ease of  
maintenance

## / Benefits & Features

- **Huge screen size** Allows the filter to work with higher flow rates and deal with harsh water conditions
- **Corrosion resistance** Filter body is made from high quality carbon steel with two-layers coating, offering superb corrosion resistance
- **Cover & piston** Made from durable non-corrosive materials for easy, cost-effective and low maintenance
- **Extra Protection** The filter screen cylinder is molded with stainless-steel 316 screen incorporating a special weave, providing an extra layer of protection to the irrigation system
- **Two models** Horizontal and vertical, with multiple filtration area options covering a wide range of flow rates, ensures a perfect fit for different water quality and protection requirements
- **ScreenGuard™ App** BT (Bluetooth) controller activated with Netafim SG App allows better control of filter performance
- **Multi connection types** Fits perfectly with any irrigation system
- **Variety of applications** Thanks to different micron rating screens

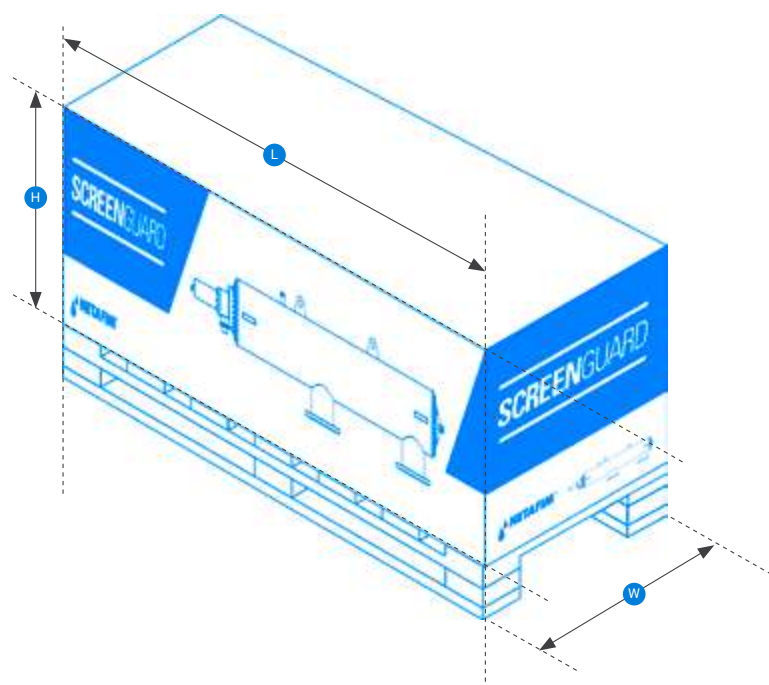
## / Applications

- ✓ Primary filtration for use with well water and/or single use dripperline applications in multiple water sources
- ✓ Primary filtration for micro and open field sprinkler applications in multiple water sources
- ✓ Primary filtration for landscaping applications



## → Logistic Data

| Model             | Connection Type       | Quantity in Box | Box Length L (mm) | Box Height H (mm) | Box width W (mm) | Gross Weight per Box (kg) |
|-------------------|-----------------------|-----------------|-------------------|-------------------|------------------|---------------------------|
| Vertical Filter   | 2" Auto. Screen       | 1               | 1,070             | 710               | 520              | 47                        |
|                   | 3" Auto. Screen       | 1               | 1,070             | 710               | 520              | 53                        |
|                   | 3" Super Auto. Screen | 1               | 1,070             | 710               | 520              | 55                        |
|                   | 4" Auto. Screen       | 1               | 1,070             | 710               | 520              | 58                        |
|                   | 4" Super Auto. Screen | 1               | 1,620             | 710               | 520              | 76                        |
|                   | 6" Auto. Screen       | 1               | 1,620             | 710               | 520              | 81                        |
| Horizontal Filter | 4" Auto. Screen       | 1               | 2,220             | 710               | 570              | 119                       |
|                   | 4" Super Auto. Screen | 1               | 2,620             | 760               | 570              | 156                       |
|                   | 6" Auto. Screen       | 1               | 2,220             | 710               | 570              | 127                       |
|                   | 6" Super Auto. Screen | 1               | 2,620             | 760               | 570              | 159                       |
|                   | 8" Auto. Screen       | 1               | 2,620             | 760               | 570              | 169                       |
|                   | 10" Auto. Screen      | 1               | 2,620             | 760               | 570              | 178                       |



## → Technical Information

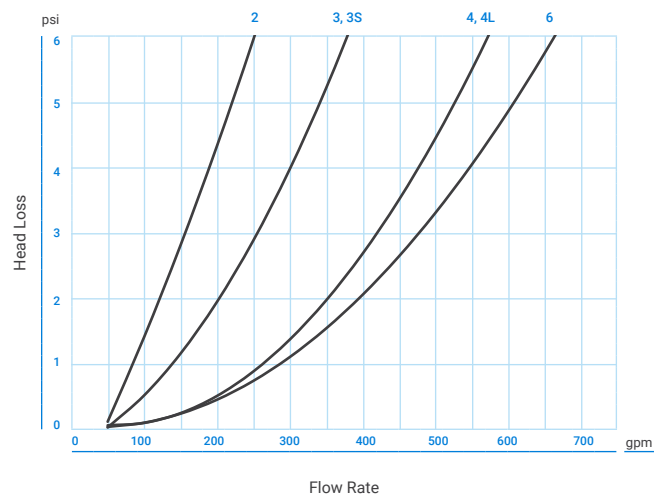
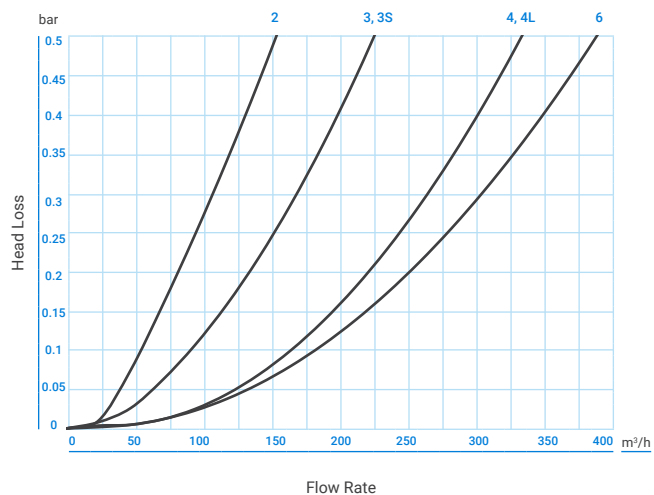
| Description       | Filtration Area (cm <sup>2</sup> ) | Available Connection Types    | Maximum Recommended Flow Rate (m <sup>3</sup> /h) | Back Flush Flow Rate (m <sup>3</sup> /h) | Minimum Pressure During Back-flush (bar) | Pressure Rating (bar) |
|-------------------|------------------------------------|-------------------------------|---|--|--|-----------------------|
| Vertical Filter   | 2" Auto. Screen                    | BSP / NPT                     | 25  | 12                                       | 2  | 10                    |
|                   | 3" Auto. Screen                    | BSP / NPT / ANSI / BSTD / ISO | 35  | 12                                       | 2  | 10                    |
|                   | 3" Super Auto. Screen              | BSP / NPT / ANSI / BSTD / ISO | 50  | 18                                       | 2  | 10                    |
|                   | 4" Auto. Screen                    | ANSI / BSTD / ISO             | 75  | 18                                       | 2  | 10                    |
|                   | 4" Super Auto. Screen              | ANSI / BSTD / ISO             | 80  | 12                                       | 2  | 10                    |
|                   | 6" Auto. Screen                    | ANSI / BSTD / ISO             | 100   | 12                                       | 2  | 10                    |
| Horizontal Filter | 4" Auto. Screen                    | ANSI / BSTD / ISO             | 80  | 24                                       | 2  | 10                    |
|                   | 4" Super Auto. Screen              | ANSI / BSTD / ISO             | 100   | 36                                       | 2  | 10                    |
|                   | 6" Auto. Screen                    | ANSI / BSTD / ISO             | 120   | 24                                       | 2  | 10                    |
|                   | 6" Super Auto. Screen              | ANSI / BSTD / ISO             | 150   | 36                                       | 2  | 10                    |
|                   | 8" Auto. Screen                    | ANSI / BSTD / ISO             | 250   | 36                                       | 2  | 10                    |
|                   | 10" Auto. Screen                   | ANSI / BSTD / ISO             | 300   | 36                                       | 2  | 10                    |

\* for larger systems up to 14" with multiple units, please contact Netafim representative

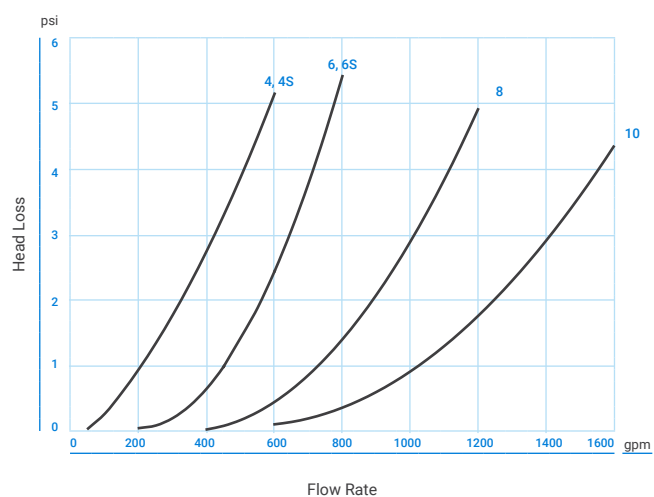
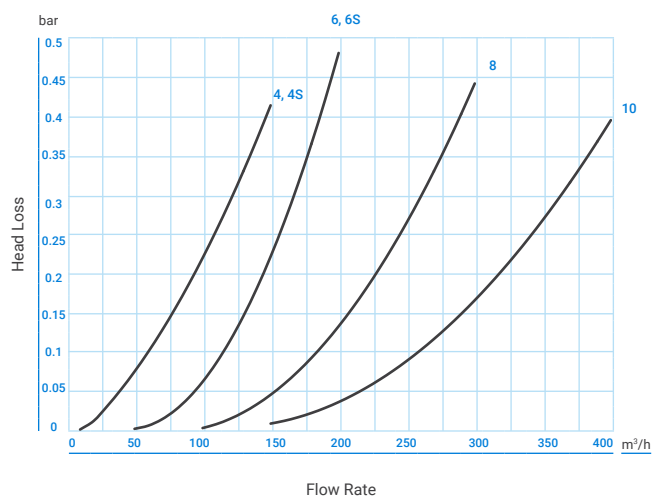


## → Head Loss

### SG Metal Vertical



### SG Metal Horizontal



## → Catalog Numbers

Catalog number starting with 71960 + (any of bellow 6 digits)

| Model             |          | 100 mic. |        |        |        |        |        | 130 mic. |        |        |        |        |        | 200 mic. |        |        |        |        |        |
|-------------------|----------|----------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
|                   |          | BSP      | NPT    | ANSI   | BSTD   | ISO 10 | ISO 16 | BSP      | NPT    | ANSI   | BSTD   | ISO 10 | ISO 16 | BSP      | NPT    | ANSI   | BSTD   | ISO 10 | ISO 16 |
| Vertical Filter   | 2"       | 000099   | 000102 | n/a    | n/a    | n/a    | n/a    | 000100   | 000103 | n/a    | n/a    | n/a    | n/a    | 000101   | 000104 | n/a    | n/a    | n/a    | n/a    |
|                   | 3"       | 000119   | 000122 | 000125 | 000128 | 000149 |        | 000120   | 000123 | 000126 | 000129 | 000150 |        | 000121   | 000124 | 000127 | 000130 | 000151 |        |
|                   | 3" Jumbo | 000169   | 000172 | 000175 | 000199 | 000219 |        | 000170   | 000173 | 000176 | 000200 | 000220 |        | 000171   | 000174 | 000177 | 000201 | 000221 |        |
|                   | 4"       | n/a      | n/a    | 000222 | 000225 | 000249 |        | n/a      | n/a    | 000223 | 000226 | 000250 |        | n/a      | n/a    | 000224 | 000227 | 000241 |        |
|                   | 4" Jumbo | n/a      | n/a    | 000603 | 000605 | 000506 |        | n/a      | n/a    | 000602 | 000601 | 000600 |        | n/a      | n/a    | 000604 | 000278 | 000607 |        |
|                   | 6"       | n/a      | n/a    | 000610 | 000613 | 000620 |        | n/a      | n/a    | 000611 | 000614 | 000621 |        | n/a      | n/a    | 000612 | 000279 | 000622 |        |
| Horizontal Filter | 4"       | n/a      | n/a    | 000252 | 000269 | 000272 |        | n/a      | n/a    | 000253 | 000270 | 000273 |        | n/a      | n/a    | 000254 | 000271 | 000274 |        |
|                   | 4" Jumbo | n/a      | n/a    | 000275 | 000299 | 000302 |        | n/a      | n/a    | 000276 | 000300 | 000303 |        | n/a      | n/a    | 000277 | 000301 | 000304 |        |
|                   | 6"       | n/a      | n/a    | 000305 | 000319 | 000322 |        | n/a      | n/a    | 000306 | 000320 | 000323 |        | n/a      | n/a    | 000307 | 000321 | 000324 |        |
|                   | 6" Jumbo | n/a      | n/a    | 000325 | 000339 | 000359 |        | n/a      | n/a    | 000326 | 000340 | 000360 |        | n/a      | n/a    | 000327 | 000341 | 000361 |        |
|                   | 8"       | n/a      | n/a    | 000379 | 000399 | 000419 | 000439 | n/a      | n/a    | 000380 | 000400 | 000420 | 000440 | n/a      | n/a    | 000381 | 000401 | 000421 | 000441 |
|                   | 10"      | n/a      | n/a    | 000450 | 000460 | 000470 | 000480 | n/a      | n/a    | 000451 | 000461 | 000471 | 000481 | n/a      | n/a    | 000452 | 000462 | 000472 | 000482 |

- SAP codes includes SG1 BT controller, for other controller type please contact Netafim
- For other filtration grades, please contact Netafim

# ScreenGuard™

## MANUAL IN LINE METAL SCREEN FILTERS

Manual In Line screen filters offer high corrosion and UV protection with large filtration area which result to better filtration efficiency, excellent irrigation uniformity and less maintenance.



Corrosion & UV  
resistance



Large  
filtration area



Ease of  
operation

## / Benefits & Features

- **Large filtration area** Results in lower labor cost due to longer cleaning intervals even in harsh water conditions
- **A semi-automatic feature** Can be assembled into the filter
- **Better longevity** Filter screen cylinder molded with stainless-steel 316L screen
- **Outstanding corrosion protection** The filter housing is coated with dual layers for better uv and corrosion protection
- **A wide range of models** With multiple filtration area options covering a wide range of flow rates, ensures a perfect fit for different water quality and protection requirements
- **Versatile** Different micron rating screens suit a variety of applications
- **Made to last** Highly reliable and durable operation over time with maximum operating pressure of 10bar / 145psi

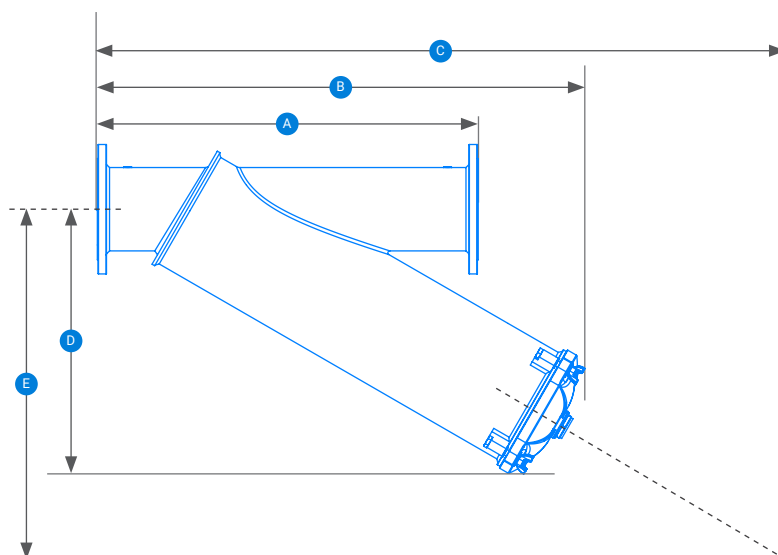
## / Applications

- ✓ Primary filtration for small holders, for use with well water and/or single use dripperline applications
- ✓ Primary filtration for landscaping applications
- ✓ Secondary filtration for media filter systems and sand separators
- ✓ In-field secondary filters for enhanced protection

## → Technical Dimensions

| Connection Diameter | A (mm) | B (mm) | C (mm) | D (mm)* | E (mm)* |
|---------------------|--------|--------|--------|---------|---------|
| 1½"                 | 420    | 390    | 530    | 265     | 375     |
| 2"                  | 420    | 390    | 530    | 265     | 375     |
| 3"                  | 600    | 670    | 1,060  | 350     | 580     |
| 4"                  | 800    | 895    | 1,495  | 445     | 810     |
| 6"                  | 900    | 945    | 1,510  | 515     | 855     |
| 8"                  | 1,000  | 1,280  | 2,160  | 695     | 1,240   |

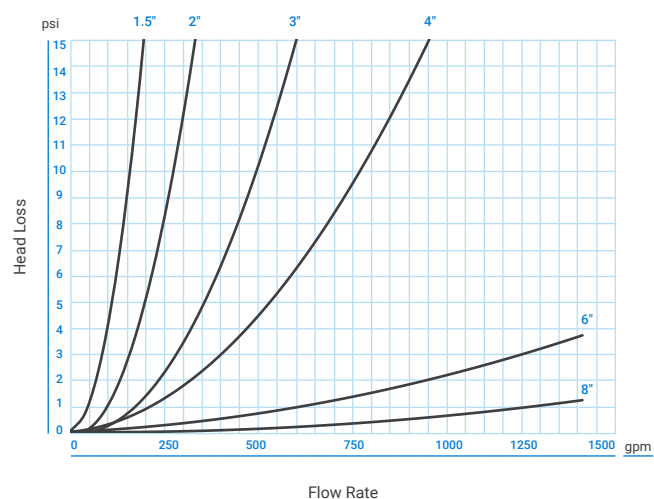
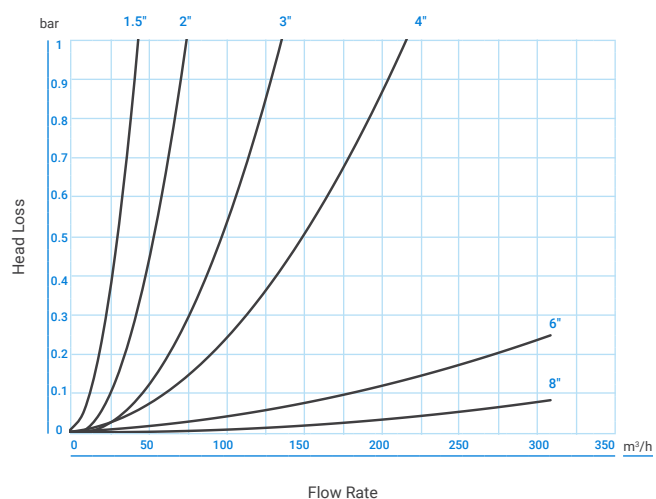
\* Minimum distance to draw screen



## → Technical Information

| Model | Filtration Area (cm²) | Available Connection Types          | Maximum Recommended Flow Rate (m³/h) | Drain Valve Diameters | Pressure Rating (bar) |
|-------|-----------------------|-------------------------------------|--------------------------------------|-----------------------|-----------------------|
| 1½"   | 850                   | BSP / NPT                           | 15                                   | 2"                    | 10                    |
| 2"    | 850                   | BSP / NPT / VIC                     | 25                                   | 2"                    | 10                    |
| 3"    | 1,700                 | BSP / NPT / VIC / ANSI / ISO / BSTD | 50                                   | 2"                    | 10                    |
| 4"    | 2,550                 | VIC / ANSI / ISO / BSTD             | 80                                   | 2"                    | 10                    |
| 6"    | 4,000                 | VIC / ANSI / ISO / BSTD             | 160                                  | 2"                    | 10                    |
| 8"    | 6,350                 | VIC / ANSI / ISO10 / VIC16 / BSTD   | 250                                  | 2"                    | 10                    |

## → Head Loss



→ Logistic Data

Catalog number starting with 71980 + (any of bellow 6 digits)

|       |            |          |          |          |          |          | Box         |             |            |             |                           | Pallet                  |             |            |             |                              |
|-------|------------|----------|----------|----------|----------|----------|-------------|-------------|------------|-------------|---------------------------|-------------------------|-------------|------------|-------------|------------------------------|
| Model | Conn. Type | 100 mic. | 130 mic. | 200 mic. | 300 mic. | 500 mic. | Qty. in Box | Length (mm) | Width (mm) | Height (mm) | Gross Weight per Box (kg) | Qty. of Boxes in Pallet | Length (mm) | Width (mm) | Height (mm) | Gross Weight per Pallet (kg) |
| 1½"   | BSP        | -        | 000289   | 000291   | 000293   | 000295   | 1           | 430         | 350        | 220         | 3.7                       | 30                      | 1,050       | 960        | 1,100       | 111                          |
|       | NPT        | -        | 000290   | 000292   | 000294   | 000296   |             | 430         | 350        | 220         | 3.7                       | 30                      | 1,050       | 960        | 1,100       | 111                          |
| 2"    | BSP        | 000071   | 000074   | 000077   | 000080   | 000083   |             | 430         | 350        | 220         | 5                         | 30                      | 1,050       | 960        | 1,100       | 150                          |
|       | NPT        | 000072   | 000075   | 000078   | 000081   | 000084   |             | 430         | 350        | 220         | 5                         | 30                      | 1,050       | 960        | 1,100       | 150                          |
|       | Grooved    | 000070   | 000073   | 000076   | 000079   | 000082   |             | 430         | 350        | 220         | 5                         | 30                      | 1,050       | 960        | 1,100       | 150                          |
| 3"    | BSP        | -        | 000111   | 000113   | 000115   | 000117   |             | 700         | 470        | 220         | 18                        | 20                      | 1,400       | 940        | 1,100       | 360                          |
|       | NPT        | -        | 000112   | 000114   | 000116   | 000118   |             | 700         | 470        | 220         | 18                        | 20                      | 1,400       | 940        | 1,100       | 360                          |
|       | Grooved    | 000090   | 000094   | 000098   | 000103   | 000107   |             | 700         | 470        | 220         | 18                        | 20                      | 1,400       | 940        | 1,100       | 360                          |
|       | ISO        | 000091   | 000095   | 000099   | 000104   | 000108   |             | 700         | 470        | 220         | 27                        | 20                      | 1,400       | 940        | 1,100       | 540                          |
|       | BSTD       | 000093   | 000097   | 000102   | 000106   | 000110   |             | 700         | 470        | 220         | 27                        | 20                      | 1,400       | 940        | 1,100       | 540                          |
|       | ANSI       | 000092   | 000096   | 000100   | 000105   | 000109   |             | 700         | 470        | 220         | 27                        | 20                      | 1,400       | 940        | 1,100       | 540                          |
| 4"    | Grooved    | 000120   | 000124   | 000128   | 000132   | 000136   |             | 920         | 610        | 240         | 24                        | 10                      | 1,220       | 920        | 1,200       | 240                          |
|       | ISO        | 000121   | 000125   | 000129   | 000133   | 000137   |             | 920         | 610        | 240         | 33                        | 10                      | 1,220       | 920        | 1,200       | 330                          |
|       | BSTD       | 000123   | 000127   | 000131   | 000135   | 000139   |             | 920         | 610        | 240         | 33                        | 10                      | 1,220       | 920        | 1,200       | 330                          |
|       | ANSI       | 000122   | 000126   | 000130   | 000134   | 000138   |             | 920         | 610        | 240         | 33                        | 10                      | 1,220       | 920        | 1,200       | 330                          |
| 6"    | Grooved    | 000150   | 000154   | 000158   | 000162   | 000166   |             | 960         | 670        | 375         | 64                        | 1                       | 930         | 670        | 375         | 64                           |
|       | ISO        | 000151   | 000155   | 000159   | 000163   | 000167   |             | 960         | 670        | 375         | 78                        | 1                       | 930         | 670        | 375         | 78                           |
|       | BSTD       | 000153   | 000157   | 000160   | 000165   | 000169   |             | 960         | 670        | 375         | 78                        | 1                       | 930         | 670        | 375         | 78                           |
|       | ANSI       | 000152   | 000156   | 000161   | 000164   | 000168   |             | 960         | 670        | 375         | 78                        | 1                       | 930         | 670        | 375         | 78                           |
| 8"    | Grooved    | 000180   | 000185   | 000190   | 000195   | 000200   |             | 1,300       | 900        | 375         | 87                        | 1                       | 1,300       | 900        | 375         | 87                           |
|       | ISO10      | 000181   | 000186   | 000191   | 000196   | 000201   |             | 1,300       | 900        | 375         | 103                       | 1                       | 1,300       | 900        | 375         | 103                          |
|       | ISO16      | 000182   | 000187   | 000192   | 000197   | 000202   |             | 1,300       | 900        | 375         | 103                       | 1                       | 1,300       | 900        | 375         | 103                          |
|       | BSTD       | 000184   | 000189   | 000194   | 000199   | 000204   |             | 1,300       | 900        | 375         | 103                       | 1                       | 1,300       | 900        | 375         | 103                          |
|       | ANSI       | 000183   | 000188   | 000193   | 000198   | 000203   |             | 1,300       | 900        | 375         | 103                       | 1                       | 1,300       | 900        | 375         | 103                          |

For other filtration grade, please contact Netafim representative

# ScreenGuard™

## MANUAL ON LINE METAL SCREEN FILTERS

Manual On Line screen filters offer high corrosion and UV protection with large filtration area which result to better filtration efficiency, excellent irrigation uniformity and less maintenance.



Corrosion & UV  
resistance



Large  
filtration area



Ease of  
operation

## / Benefits & Features

- **Large filtration area** Results in lower labor cost due to longer cleaning intervals even in harsh water conditions
- **A semi-automatic feature** Can be assembled into the filter
- **Better longevity** Filter screen cylinder molded with stainless-steel 316L screen
- **Outstanding corrosion protection** The filter housing is coated with dual layers for better uv and corrosion protection
- **A wide range of models** With multiple filtration area options covering a wide range of flow rates, ensures a perfect fit for different water quality and protection requirements
- **Versatile** Different micron rating screens suit a variety of applications
- **Made to last** Highly reliable and durable operation over time with maximum operating pressure of 10bar / 145psi

## / Applications

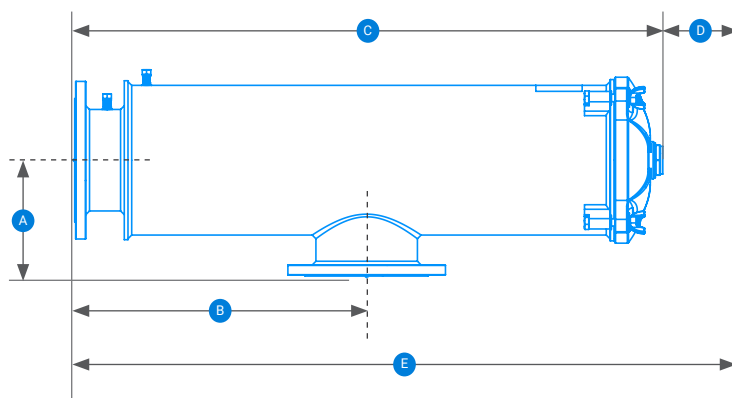
- ✓ Primary filtration for small holders, for use with well water and/or single use dripperline applications
- ✓ Primary filtration for landscaping applications
- ✓ Secondary filtration for media filter systems and sand separators
- ✓ In-field secondary filters for enhanced protection



## → Technical Dimensions

| Connection Diameter | A (mm) | B (mm) | C (mm) | D (mm)* | E (mm)* |
|---------------------|--------|--------|--------|---------|---------|
| 1½"                 | 150    | 210    | 390    | 226     | 616     |
| 2"                  | 150    | 210    | 390    | 226     | 616     |
| 3"                  | 150    | 340    | 655    | 475     | 1,129   |
| 4"                  | 150    | 460    | 900    | 724     | 1,624   |
| 6"                  | 250    | 450    | 901    | 691     | 1,592   |
| 8"                  | 250    | 630    | 1,267  | 1,057   | 2,324   |

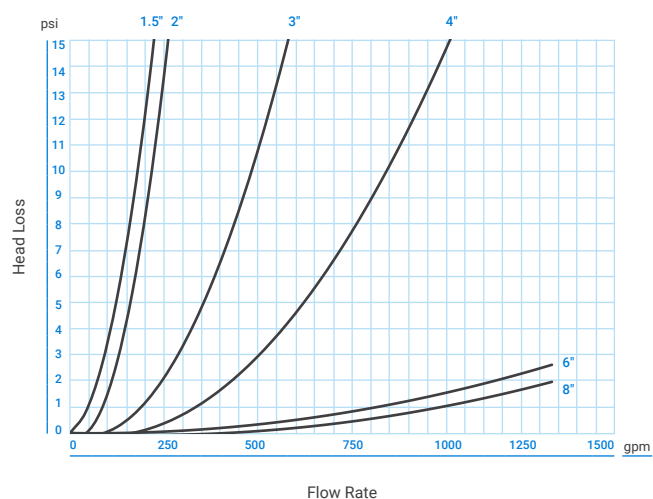
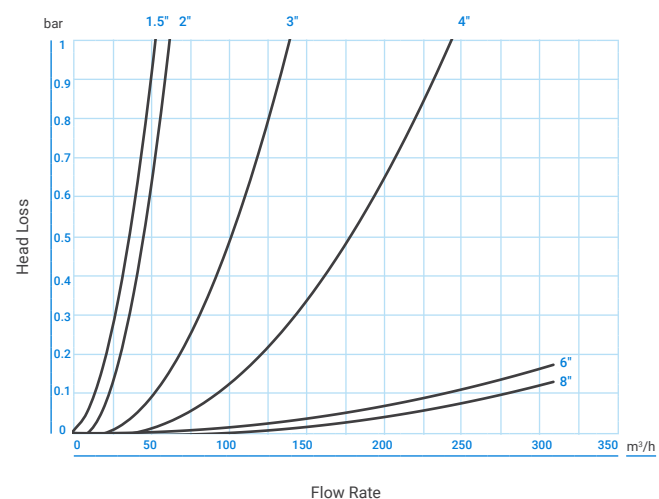
\* Minimum distance to draw screen



## → Technical Information

| Model | Filtration Area (cm <sup>2</sup> ) | Available Connection Types          | Maximum Recommended Flow Rate (m <sup>3</sup> /h) | Drain Valve Diameters | Pressure Rating (bar) |
|-------|------------------------------------|-------------------------------------|---|-----------------------|-----------------------|
| 1½"   | 850                                | BSP / NPT                           | 15  | 2"                    | 10                    |
| 2"    | 850                                | BSP / NPT / VIC                     | 25  | 2"                    | 10                    |
| 3"    | 1,700                              | BSP / NPT / VIC / ANSI / ISO / BSTD | 50  | 2"                    | 10                    |
| 4"    | 2,550                              | VIC / ANSI / ISO / BSTD             | 80  | 2"                    | 10                    |
| 6"    | 4,000                              | VIC / ANSI / ISO / BSTD             | 160   | 2"                    | 10                    |
| 8"    | 6,350                              | VIC / ANSI / ISO10 / VIC16 / BSTD   | 250   | 2"                    | 10                    |

## → Head Loss



→ **Logistic Data**

Catalog number starting with 71980 + (any of bellow 6 digits)

|       |            |          |           |           |           |           | Box         |             |            |             |                           | Pallet                  |             |            |             |                              |
|-------|------------|----------|-----------|-----------|-----------|-----------|-------------|-------------|------------|-------------|---------------------------|-------------------------|-------------|------------|-------------|------------------------------|
| Model | Conn. Type | 100 mic. | 130 mic.. | 200 mic.. | 300 mic.. | 500 mic.. | Qty. in Box | Length (mm) | Width (mm) | Height (mm) | Gross Weight per Box (kg) | Qty. of Boxes in Pallet | Length (mm) | Width (mm) | Height (mm) | Gross Weight per Pallet (kg) |
| 1½"   | BSP        |          | 000264    | 000267    | 000268    | 000270    | 1           | 405         | 260        | 210         | 4                         | 45                      | 800         | 1,215      | 1,050       | 200                          |
|       | NPT        |          | 000265    | 000266    | 000269    | 000271    |             | 405         | 260        | 210         | 4                         | 45                      | 800         | 1,215      | 1,050       | 200                          |
| 2"    | BSP        |          | 000002    | 000273    | 000276    | 000279    |             | 405         | 260        | 210         | 4                         | 45                      | 800         | 1,215      | 1,050       | 200                          |
|       | NPT        |          | 000003    | 000274    | 000277    | 000280    |             | 405         | 260        | 210         | 4                         | 45                      | 800         | 1,215      | 1,050       | 200                          |
|       | Grooved    |          | 000001    | 000272    | 000275    | 000278    |             | 405         | 260        | 210         | 4                         | 45                      | 800         | 1,215      | 1,050       | 200                          |
| 3"    | BSP        |          | 000052    | 000054    | 000059    | 000066    |             | 670         | 260        | 210         | 16                        | 30                      | 800         | 1,340      | 1,050       | 500                          |
|       | NPT        |          | 000053    | 000055    | 000062    | 000067    |             | 670         | 260        | 210         | 16                        | 30                      | 800         | 1,340      | 1,050       | 500                          |
|       | Grooved    |          | 000004    | 000060    | 000061    | 000068    |             | 670         | 260        | 210         | 16                        | 30                      | 800         | 1,340      | 1,050       | 500                          |
|       | ISO        |          | 000005    | 000056    | 000063    | 000069    |             | 670         | 260        | 210         | 22.5                      | 30                      | 800         | 1,340      | 1,050       | 700                          |
|       | BSTD       |          | 000007    | 000058    | 000065    | 000032    |             | 670         | 260        | 210         | 22.5                      | 30                      | 800         | 1,340      | 1,050       | 700                          |
|       | ANSI       |          | 000006    | 000057    | 000064    | 000031    |             | 670         | 260        | 210         | 22.5                      | 30                      | 800         | 1,340      | 1,050       | 700                          |
| 4"    | Grooved    |          | 000008    | 000041    | 000042    | 000043    |             | 920         | 260        | 210         | 20.5                      | 15                      | 800         | 920        | 1,050       | 320                          |
|       | ISO        |          | 000009    | 000281    | 000284    | 000286    |             | 920         | 260        | 210         | 28                        | 15                      | 800         | 920        | 1,050       | 435                          |
|       | BSTD       |          | 000011    | 000283    | 000049    | 000288    |             | 920         | 260        | 210         | 28                        | 15                      | 800         | 920        | 1,050       | 435                          |
|       | ANSI       |          | 000010    | 000282    | 000285    | 000287    |             | 920         | 260        | 210         | 28                        | 15                      | 800         | 920        | 1,050       | 435                          |
| 6"    | Grooved    |          | 000012    | 000030    | 000044    | 000045    |             | 930         | 400        | 590         | 60                        | 1                       | 930         | 400        | 590         | 60                           |
|       | ISO        |          | 000013    | 000210    | 000220    | 000230    |             | 930         | 400        | 590         | 73                        | 1                       | 930         | 400        | 590         | 73                           |
|       | BSTD       |          | 000015    | 000212    | 000050    | 000232    |             | 930         | 400        | 590         | 73                        | 1                       | 930         | 400        | 590         | 73                           |
|       | ANSI       |          | 000014    | 000211    | 000221    | 000231    |             | 930         | 400        | 590         | 73                        | 1                       | 930         | 400        | 590         | 73                           |
| 8"    | Grooved    |          | 000016    | 000040    | 000046    | 000047    |             | 1,330       | 400        | 590         | 80                        | 1                       | 1,330       | 400        | 590         | 80                           |
|       | ISO10      |          | 000017    | 000240    | 000250    | 000260    |             | 1,330       | 400        | 590         | 98                        | 1                       | 1,330       | 400        | 590         | 98                           |
|       | ISO16      |          | 000018    | 000241    | 000248    | 000261    |             | 1,330       | 400        | 590         | 98                        | 1                       | 1,330       | 400        | 590         | 98                           |
|       | BSTD       |          | 000020    | 000243    | 000051    | 000263    |             | 1,330       | 400        | 590         | 98                        | 1                       | 1,330       | 400        | 590         | 98                           |
|       | ANSI       |          | 000019    | 000242    | 000251    | 000262    |             | 1,330       | 400        | 590         | 98                        | 1                       | 1,330       | 400        | 590         | 98                           |

For other filtration grade, please contact Netafim representative

# ScreenGuard™

## MANUAL, POLYMER MINI SCREEN FILTERS

Netafim manual mini screen filters offer high quality small filters with large filtration area and high efficiency for ease of installation and less maintenance.



Durable materials



Simple to operate



Ease of operation

## / Benefits & Features

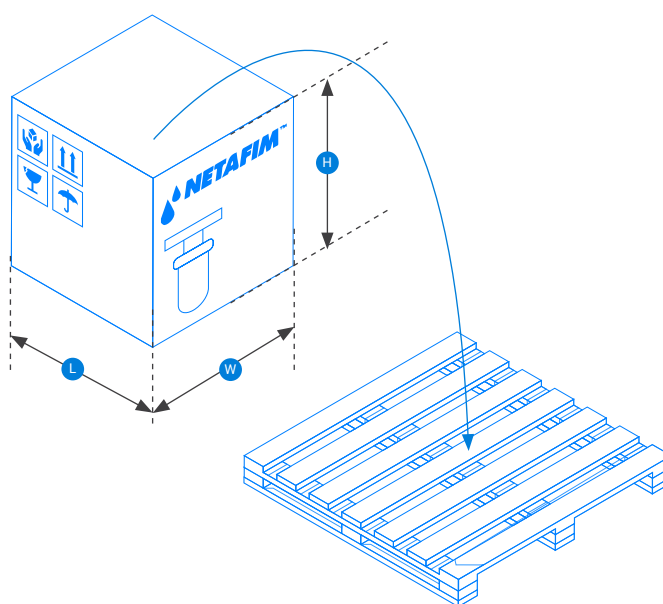
- **Large filtration area** Results in lower labor cost due to longer cleaning intervals even in harsh water conditions
- **Filter housing and cover** Molded from high quality durable materials for mechanical strength and non-corrosiveness
- **Stainless steel 316L screen** Long lasting filter screen cylinder
- **A "Y" shape model** With multiple filtration area options covering a wide range of flow rates
- **Two options threads** Available in BSP and NPT threads
- **Different micron rating screens** Suited to a variety of applications
- **Maximum operating pressure** 8bar

# / Applications

- ✓ Small holders with low flow rate
- ✓ In-field secondary filtration in protected crops
- ✓ Landscape
- ✓ Fertilizer tanks

## → Logistic Data

| Model     | Box                    |                  |                  |                 |                              | Pallet (Including the Pallet)      |                |                |               |                                 |
|-----------|------------------------|------------------|------------------|-----------------|------------------------------|------------------------------------|----------------|----------------|---------------|---------------------------------|
|           | Qty. in Box<br>(units) | L Length<br>(mm) | H Height<br>(mm) | W Width<br>(mm) | Gross Weight Per Box<br>(kg) | Qty. of Boxes in Pallet<br>(units) | Length<br>(mm) | Height<br>(mm) | Width<br>(mm) | Gross Weight per Pallet<br>(kg) |
| ¾"        | 25                     | 740              | 240              | 345             | 7.2                          | 42                                 | 1,500          | 1,900          | 1,150         | 326                             |
| 1"        |                        |                  |                  |                 | 7.6                          |                                    |                |                |               | 342                             |
| 1" Long   | 15                     |                  |                  |                 | 11.3                         |                                    |                |                |               | 498                             |
| 1.5"      |                        |                  |                  |                 | 11.9                         |                                    |                |                |               | 522                             |
| 1.5" Long | 5                      |                  |                  |                 | 6.9                          |                                    |                |                |               | 312                             |
| 2"        |                        |                  |                  |                 | 7.0                          |                                    |                |                |               | 318                             |



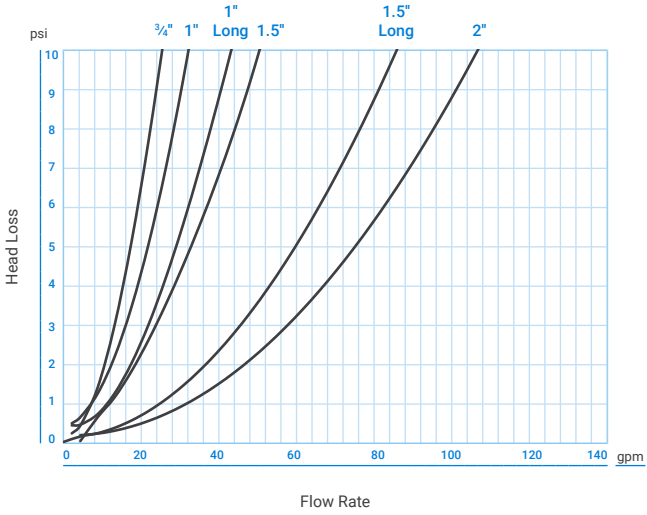
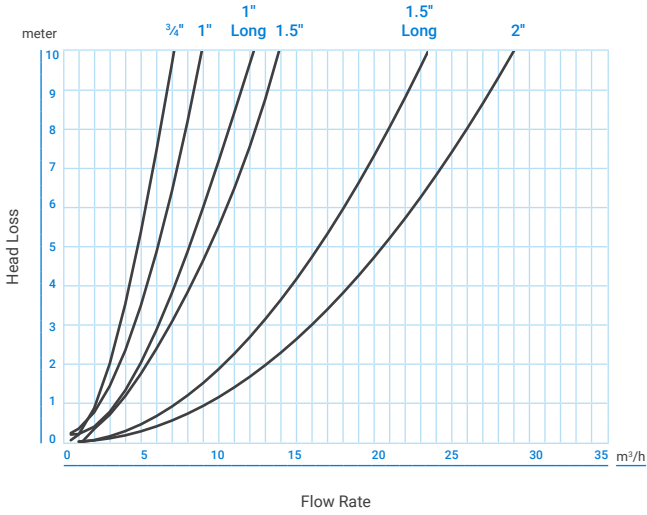
## → Technical Information

| Description | Filtration Area<br>(cm²) | Available Connection Types | Maximum Recommended Flow Rate (m³/h) | Pressure Rating (bar) |
|-------------|--------------------------|----------------------------|--------------------------------------|-----------------------|
| ¾"          | 165                      | BSP / NPT                  | 3.5                                  | 8                     |
| 1"          |                          |                            | 4.5                                  |                       |
| 1" Long     | 300                      |                            | 6                                    |                       |
| 1.5"        |                          |                            | 7                                    |                       |
| 1.5" Long   | 515                      |                            | 12.5                                 |                       |
| 2"          |                          |                            | 16                                   |                       |

## → Material Information

| Part   | Material |
|--------|----------|
| Body   | PP       |
| Cover  | PP       |
| Screen | ST 316   |
| Seal   | NBR      |

→ Head Loss



→ Catalog Numbers

Catalog number starting with 71970 + (any of bellow 6 digits)

| Model     | 100 mic. |        | 130 mic. |        | 200 mic. |        |
|-----------|----------|--------|----------|--------|----------|--------|
|           | BSP      | NPT    | BSP      | NPT    | BSP      | NPT    |
| 3/4"      | 000850   | 000853 | 000851   | 000854 | 000852   | 000855 |
| 1"        | 000860   | 000863 | 000861   | 000864 | 000862   | 000865 |
| 1" Long   | 000870   | 000873 | 000871   | 000874 | 000872   | 000875 |
| 1.5"      | 000880   | 000883 | 000881   | 000884 | 000882   | 000885 |
| 1.5" Long | 000890   | 000893 | 000891   | 000894 | 000892   | 000895 |
| 2"        | 000900   | 000903 | 000901   | 000904 | 000902   | 000905 |

For other filtration grades, please contact Netafim



# ScreenGuard™

## MANUAL POLYMER SCREEN FILTERS

Manual screen filters offer the largest filtration area in the industry. The result – better filtration efficiency, excellent irrigation uniformity and much less maintenance.



Corrosion & UV  
resistance



Large  
filtration area



Ease of  
operation

## / Benefits & Features

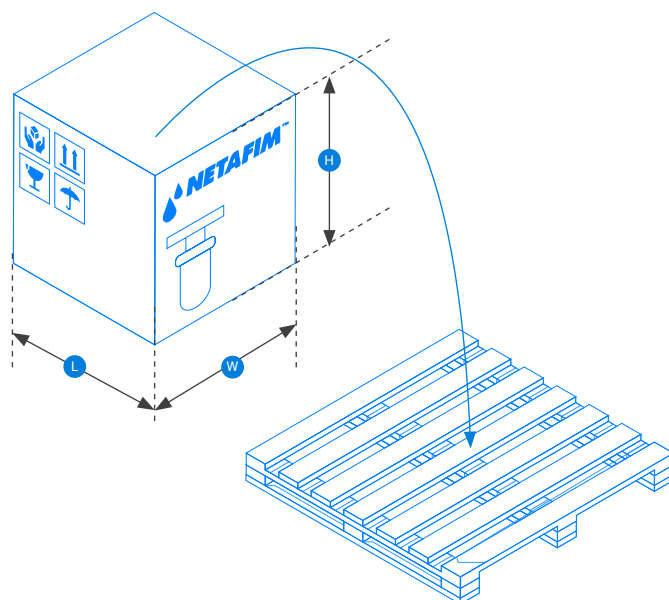
- **Large filtration area** The extremely large filtration area results in lower labor cost due to longer cleaning intervals even in harsh water conditions
- **Semi-automatic feature** Can be assembled into the filter
- **Extra protective layer** Filter screen cylinder molded with stainless-steel 316L screen with special weave incorporated allowing additional protection and easy maintenance
- **Plastic filter housing & cover** Molded from high quality engineered plastic for mechanical strength, durability, and non-corrosiveness
- **Multiple filtration area options** Variety of models covering a wide range of flow rates, ensures a perfect fit for different water quality and protection requirements
- **Multiple configurations** Fits perfectly with any irrigation system thanks to different configuration and connection types
- **Different micron rating screens** Suited to a variety of applications
- **Made to last** Highly reliable operation and durable over time with maximum operating pressure of 10bar / 145psi

# / Applications

- ✓ Primary filtration for small holders, for use with well water and/or single use dripperline applications
- ✓ Primary filtration for landscaping applications
- ✓ Secondary filtration for media filter systems and sand separators
- ✓ In-field secondary filters for enhanced protection

## → Logistic Data

| Model       |                 | Connection Type       | Box         |               |               |              |                              | Palett<br>(Dimensions Incude Full Pallet Content + The Pallet) |             |             |            |                                 |
|-------------|-----------------|-----------------------|-------------|---------------|---------------|--------------|------------------------------|--|-------------|-------------|------------|---------------------------------|
|             |                 |                       | Qty. In Box | Length (mm) L | Height (mm) H | Width (mm) W | Gross Weight per Box (kg)    | Qty. of Boxes in Pallet  | Length (mm) | Height (mm) | Width (mm) | Gross Weight P. Pallet (kg)     |
| Tee Filter  | 2" Mini         | BSP / NPT             | 1           | 530           | 280           | 370          | 7                            | 42   | 1,110       | 2,100       | 1,150      | 310.5                           |
|             | 2" Regular      | BSP / NPT             | 1           | 650           | 280           | 370          | 7.8                          | 42   | 1,300       | 2,100       | 1,150      | 344.6                           |
|             | 2" Jumbo        | BSP / NPT             | 1           | 790           | 280           | 370          | 8.8                          | 42   | 1,650       | 2,100       | 1,150      | 391.6                           |
|             | 3" Regular      | BSP / NPT / UNF / VIC | 1           | 650           | 280           | 370          | 7.8 (NPT, BSP)<br>9.4 (UNF)  | 42   | 1,300       | 2,100       | 1,150      | 344.6 (NPT, BSP)<br>411.8 (UNF) |
|             | 3" Jumbo        | BSP / NPT / UNF / VIC | 1           | 790           | 280           | 370          | 8.8 (NPT, BSP)<br>10.2 (UNF) | 42   | 1,650       | 2,100       | 1,150      | 391.6 (NPT, BSP)<br>450.4 (UNF) |
| Twin Filter | 3" Reg. Double  | BSP / NPT / UNF / VIC | 1           | 990           | 280           | 380          | 12.4 (NPT, BSP)<br>14 (UNF)  | 21   | 1,000       | 2,100       | 1,150      | 276.6 (NPT, BSP)<br>310.2 (UNF) |
|             | 3" Jumbo double | BSP / NPT / UNF / VIC | 1           | 1,230         | 280           | 380          | 14.4 (NPT, BSP)<br>16 (UNF)  | 21   | 1,250       | 2,100       | 1,150      | 319.2 (NPT, BSP)<br>352.8 (UNF) |
|             | 4" Reg. double  | VIC / UNF             | 1           | 990           | 280           | 380          | 14.2                         | 21   | 1,000       | 2,100       | 1,150      | 314.4                           |
|             | 4" Jumbo double | VIC / UNF             | 1           | 1,230         | 280           | 380          | 16.4                         | 21   | 1,250       | 2,100       | 1,150      | 361.2                           |
|             | 6" Jumbo double | VIC / UNF             | 1           | 2,200         | 550           | 550          | 26                           | 1  | 2,200       | 710         | 570        | 54                              |



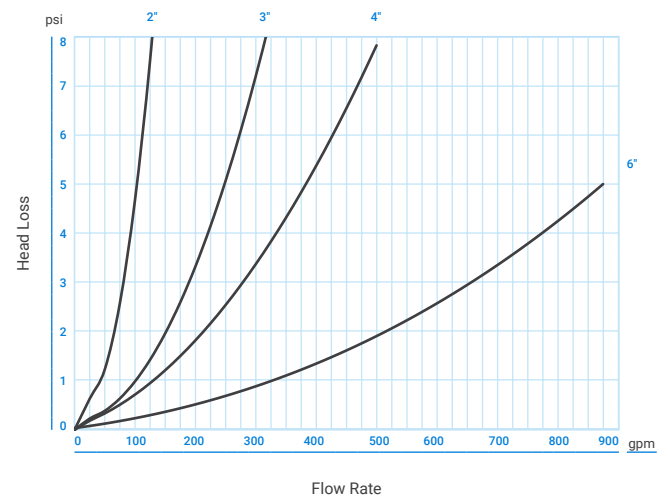
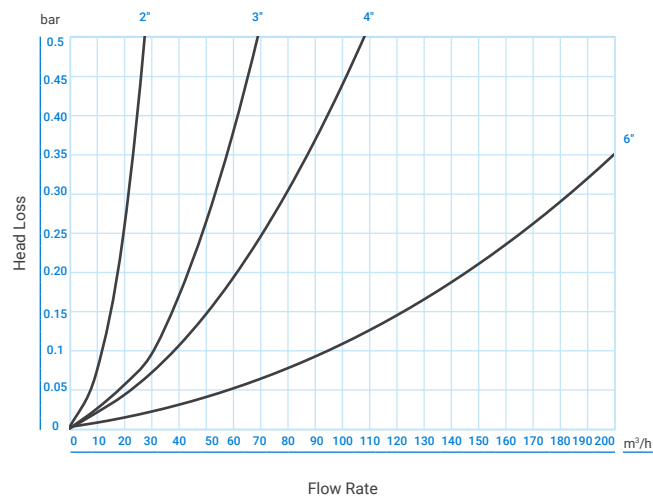
## → Technical Information

|             | Description     | Filtration Area (cm <sup>2</sup> ) | Available Connection Types | Maximum rec. Flow Rate (m <sup>3</sup> /h) | Pressure Rating (bar) |
|-------------|-----------------|------------------------------------|----------------------------|--|-----------------------|
| Tee Filter  | 2" Mini         | 810                                | BSP / NPT                  | 15   | 10                    |
|             | 2" Regular      | 1,210                              | BSP / NPT                  | 20   | 10                    |
|             | 2" Jumbo        | 1,610                              | BSP / NPT                  | 25   | 10                    |
|             | 3" Regular      | 1,210                              | BSP / NPT / UNF            | 25   | 10                    |
|             | 3" Jumbo        | 1,610                              | BSP / NPT / UNF            | 30   | 10                    |
| Twin Filter | 3" Double       | 2,420                              | BSP / NPT / UNF            | 45   | 10                    |
|             | 3" Jumbo double | 3,220                              | BSP / NPT / UNF            | 50   | 10                    |
|             | 4" Double       | 2,420                              | UNF / VIC                  | 60   | 10                    |
|             | 4" Jumbo double | 3,220                              | UNF / VIC                  | 75   | 10                    |
|             | 6" Jumbo double | 5,500                              | UNF / VIC                  | 150  | 10                    |

## → Material Info.

| Part        | Material |
|-------------|----------|
| Body        | GRP      |
| Seal        | NBR      |
| Screen      | SST      |
| Drain valve | PVC      |

## → Head Loss



## → Catalog Numbers

Catalog number starting with 71970 + (any of below 6 digits)

| Model       |                 | 100 mic. |        |        |        | 130 mic. |        |        |        | 200 mic. |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|----------|--------|--------|--------|----------|--------|--------|--------|
|             |                 | BSP      | NPT    | UNF    | VIC    | BSP      | NPT    | UNF    | VIC    | BSP      | NPT    | UNF    | VIC    |
| Tee Filter  | 2" Mini         | 000100   | 000110 | n/a    | n/a    | 000101   | 000111 | n/a    | n/a    | 000102   | 000112 | n/a    | n/a    |
|             | 2" Regular      | 000120   | 000130 | n/a    | n/a    | 000121   | 000131 | n/a    | n/a    | 000122   | 000132 | n/a    | n/a    |
|             | 2" Jumbo        | 000140   | 000150 | n/a    | n/a    | 000141   | 000151 | n/a    | n/a    | 000142   | 000152 | n/a    | n/a    |
|             | 3" Regular      | 000200   | 000210 | 000220 | n/a    | 000201   | 000211 | 000221 | n/a    | 000202   | 000212 | 000222 | n/a    |
|             | 3" Jumbo        | 000230   | 000240 | 000250 | n/a    | 000231   | 000241 | 000251 | n/a    | 000232   | 000242 | 000252 | n/a    |
| Twin Filter | 3" Double       | 000260   | 000270 | 000280 | n/a    | 000261   | 000271 | 000281 | n/a    | 000262   | 000272 | 000282 | n/a    |
|             | 3" Jumbo double | 000290   | 000300 | 000310 | n/a    | 000291   | 000301 | 000311 | n/a    | 000292   | 000302 | 000312 | n/a    |
|             | 4" Double       | n/a      | n/a    | 000320 | -      | n/a      | n/a    | 000321 | -      | n/a      | n/a    | 000322 | -      |
|             | 4" Jumbo double | n/a      | n/a    | 000330 | -      | n/a      | n/a    | 000331 | -      | n/a      | n/a    | 000332 | -      |
|             | 6" Jumbo double | n/a      | n/a    | 000001 | 000004 | n/a      | n/a    | 000002 | 000005 | n/a      | n/a    | 000003 | 000006 |

- For other filtration grades, please contact Netafim

# ScreenGuard™

## SEMI-AUTO POLYMER SCREEN FILTERS

Filters that provide the industry's best filtration efficiency and allow super-easy cleaning of the screen without opening the filter or shutting of water.



Corrosion & UV  
resistance



Large  
filtration area



Ease of  
operation

## / Benefits & Features

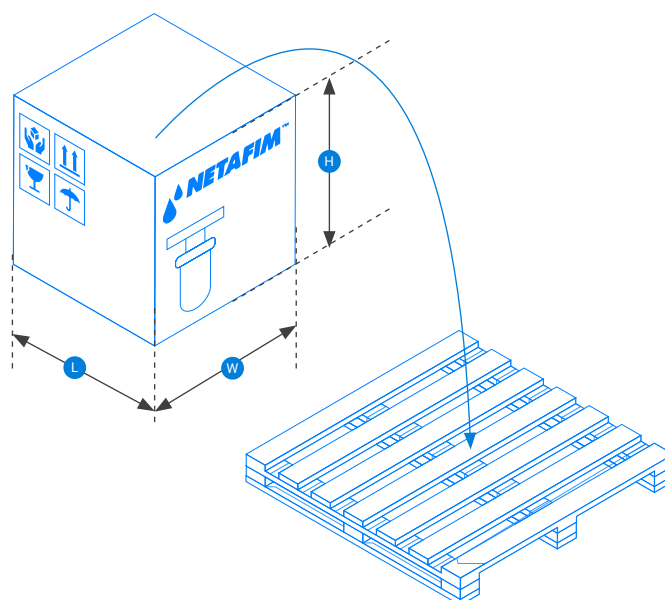
- **Large filtration area** Results in lower labor cost due to longer cleaning intervals even in harsh water conditions
- **Low maintenance**
  - Simple to clean, the screen can be perfectly cleaned with a single turn of the handle without disassembling the filters and without disrupting the irrigation process
  - Ease of installation and maintenance
- **Sturdy and durable** Molded from high quality engineered plastic for mechanical strength, durability and no- corrosiveness
- **Semi-automatic** Can be installed on all Netafim manual Screenguard™ plastic filters
- **Extra protective** Filter screen cylinder molded with stainless-steel 316L is incorporated with a special weave, providing an extra protective layer to the irrigation system, and easy maintenance
- **Multiple filter area** Covers a wide range of flow rates, ensures a perfect fit for different water quality and protection requirements
- **Versatile** Multiple configurations and connection types and different micron rating screens enable to fit with any irrigation system

## / Applications

- ✓ Primary filtration for small holders, for use with well water and/or single use dripperline applications
- ✓ Primary filtration for landscaping applications
- ✓ Secondary filtration for media filter systems and sand separators
- ✓ In-field secondary filters for enhanced protection

## → Logistic Data

| Model       |                 | Connection Type | Box         |               |               |              |                               | Palett<br>(Dimensions incude full pallet content + the pallet) |             |             |            |                                 |
|-------------|-----------------|-----------------|-------------|---------------|---------------|--------------|-------------------------------|--|-------------|-------------|------------|---------------------------------|
|             |                 |                 | Qty. in Box | Length (mm) L | Height (mm) H | Width (mm) W | Gross Weight per Box (kg)     | Qty. of Boxes in Pallet  | Length (mm) | Height (mm) | width (mm) | Gross Weight per Pallet (kg)    |
| Tee Filter  | 2" Regular      | BSP / NPT       | 1           | 790           | 280           | 370          | 9.2                           | 42   | 1,650       | 2,100       | 1,150      | 408.4                           |
|             | 2" Jumbo        | BSP / NPT       | 1           | 910           | 280           | 370          | 10.2                          | 28   | 1,300       | 2,100       | 1,150      | 302.6                           |
|             | 3" Regular      | BSP / NPT / UNF | 1           | 790           | 280           | 370          | 9.4 (NPT, BSP)<br>10.6 (UNF)  | 42   | 1,650       | 2,100       | 1,150      | 416.8 (NPT, BSP)<br>467.2 (UNF) |
|             | 3" Jumbo        | BSP / NPT / UNF | 1           | 910           | 280           | 370          | 10.4 (NPT, BSP)<br>11.8 (UNF) | 28   | 1,300       | 2,100       | 1,150      | 308.2 (NPT, BSP)<br>347.4 (UNF) |
| Twin Filter | 3" Double       | BSP / NPT / UNF | 1           | 1,390         | 280           | 380          | 16.4 (NPT, BSP)<br>17.8 (UNF) | 21   | 1,450       | 2,100       | 1,150      | 364.4 (NPT, BSP)<br>393.8 (UNF) |
|             | 3" Jumbo double | BSP / NPT / UNF | 1           | 1,630         | 280           | 380          | 18.6 (NPT, BSP)<br>20 (UNF)   | 21   | 1,650       | 2,100       | 1,150      | 412.6 (NPT, BSP)<br>442 (UNF)   |
|             | 4" Double       | VIC / UNF       | 1           | 1,390         | 280           | 380          | 18.2                          | 21   | 1,450       | 2,100       | 1,150      | 402.2                           |
|             | 4" Jumbo double | VIC / UNF       | 1           | 1,630         | 280           | 380          | 20.4                          | 21   | 1,650       | 2,100       | 1,150      | 450.4                           |
|             | 6" Jumbo double | VIC / UNF       | 1           | 2,200         | 550           | 550          | 29.6                          | 1  | 2,200       | 710         | 570        | 57.6                            |



## → Technical Information

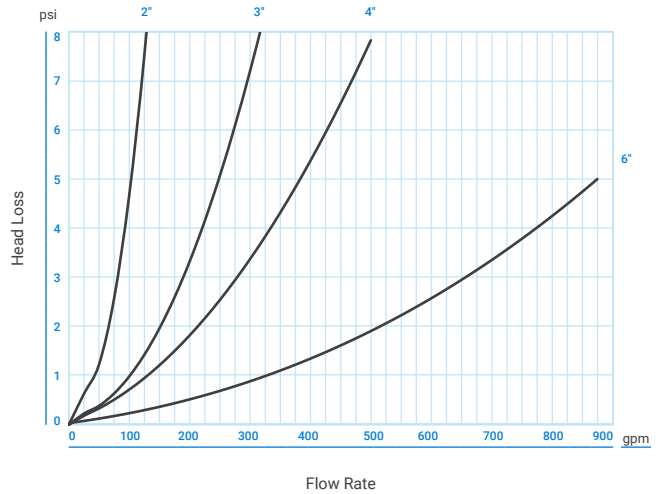
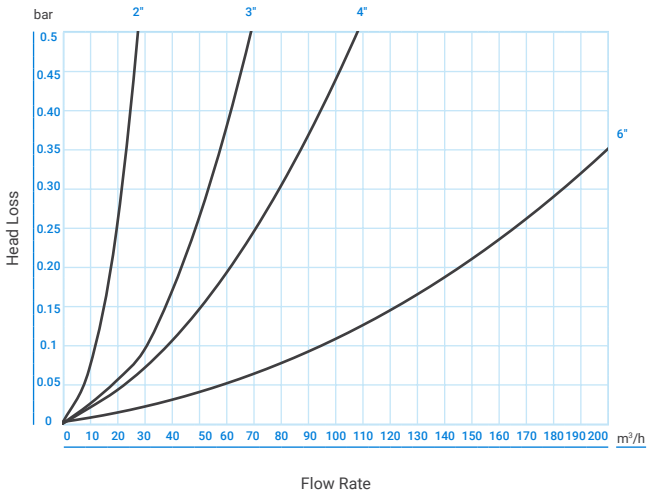
| Description |                 | Filtration Area<br>(cm²) | Available Connection Types | Maximum Recommended Flow Rate (m³/h) | Min. Pressure During the Backflush (bar) | Pressure Rating (bar) |
|-------------|-----------------|--------------------------|----------------------------|--------------------------------------|--|-----------------------|
| Tee Filter  | 2" Regular      | 1,210                    | BSP / NPT                  | 20                                   | 2  | 10                    |
|             | 2" Jumbo        | 1,610                    | BSP / NPT                  | 25                                   | 2  | 10                    |
|             | 3" Regular      | 1,210                    | BSP / NPT / UNF            | 25                                   | 2  | 10                    |
|             | 3" Jumbo        | 1,610                    | BSP / NPT / UNF            | 30                                   | 2  | 10                    |
| Twin Filter | 3" Double       | 2,420                    | BSP / NPT / UNF            | 45                                   | 2  | 10                    |
|             | 3" Jumbo double | 3,220                    | BSP / NPT / UNF            | 50                                   | 2  | 10                    |
|             | 4" Double       | 2,420                    | UNF / VIC                  | 60                                   | 2  | 10                    |
|             | 4" Jumbo double | 3,220                    | UNF / VIC                  | 75                                   | 2  | 10                    |
|             | 6" Jumbo double | 5,500                    | UNF / VIC                  | 150                                  | 2  | 10                    |

## → Material Specifications

| Part        | Material |
|-------------|----------|
| Body        | GRP      |
| Seal        | NBR      |
| Screen      | SST      |
| Drain valve | PVC      |



→ Head Loss



→ Catalog Numbers

Catalog number starting with 71970 + (any of bellow 6 digits)

| Model       |                 | 100 mic. |        |        |        | 130 mic. |        |        |        | 200 mic. |        |        |        |
|-------------|-----------------|----------|--------|--------|--------|----------|--------|--------|--------|----------|--------|--------|--------|
|             |                 | BSP      | NPT    | UNF    | VIC    | BSP      | NPT    | UNF    | VIC    | BSP      | NPT    | UNF    | VIC    |
| Tee Filter  | 2" Regular      | 000500   | 000510 | n/a    | n/a    | 000501   | 000511 | n/a    | n/a    | 000502   | 000512 | n/a    | n/a    |
|             | 2" Jumbo        | 000520   | 000530 | n/a    | n/a    | 000521   | 000531 | n/a    | n/a    | 000522   | 000532 | n/a    | n/a    |
|             | 3" Regular      | 000540   | 000550 | 000560 | n/a    | 000541   | 000551 | 000561 | n/a    | 000542   | 000552 | 000562 | n/a    |
|             | 3" Jumbo        | 000570   | 000580 | 000590 | n/a    | 000571   | 000581 | 000591 | n/a    | 000572   | 000582 | 000592 | n/a    |
| Twin Filter | 3" Double       | 000600   | 000610 | 000620 | n/a    | 000601   | 000611 | 000621 | n/a    | 000602   | 000612 | 000622 | n/a    |
|             | 3" Jumbo double | 000630   | 000640 | 000650 | n/a    | 000631   | 000641 | 000651 | n/a    | 000632   | 000642 | 000652 | n/a    |
|             | 4" Double       | n/a      | n/a    | 000660 | -      | n/a      | n/a    | 000661 | -      | n/a      | n/a    | 000662 | -      |
|             | 4" Jumbo double | n/a      | n/a    | 000670 | -      | n/a      | n/a    | 000671 | -      | n/a      | n/a    | 000672 | -      |
|             | 6" Jumbo double | n/a      | n/a    | 000007 | 000010 | n/a      | n/a    | 000008 | 000011 | n/a      | n/a    | 000009 | 000012 |

For other filtration grades, please contact Netafim

# ScreenGuard Filters

## Description Guide

Sample description

**SG<sup>1</sup> A<sup>2</sup> H<sup>3</sup> 8"<sup>4</sup> 7900<sup>5</sup> D16<sup>6</sup> 130M<sup>7</sup> SG1 DC SOL<sup>8</sup>**

### 1 Family

|           |              |
|-----------|--------------|
| <b>SG</b> | Screeneguard |
|-----------|--------------|

### 2 Type

|             |                        |
|-------------|------------------------|
| <b>A</b>    | Automatic              |
| <b>M PL</b> | Manual plastic         |
| <b>S PL</b> | Semi-automatic plastic |
| <b>M MT</b> | Manual metal           |
| <b>S MT</b> | Semi-automatic metal   |

### 3 Configuration

|          |            |
|----------|------------|
| <b>H</b> | Horizontal |
| <b>V</b> | Vertical   |
| <b>T</b> | Tee        |
| <b>D</b> | Double     |

### 4 Diameter

|              |       |
|--------------|-------|
| <b>¾"</b>    | ¾"    |
| <b>1"</b>    | 1"    |
| <b>1.5"</b>  | 1.5"  |
| <b>2"</b>    | 2"    |
| <b>3"</b>    | 3"    |
| <b>4"</b>    | 4"    |
| <b>6"</b>    | 6"    |
| <b>8"</b>    | 8"    |
| <b>10"</b>   | 10"   |
| <b>2-10"</b> | 2-10" |
| <b>3-12"</b> | 3-12" |
| <b>4-14"</b> | 4-14" |

### 5 Screen Area

|              |                       |
|--------------|-----------------------|
| <b>810</b>   | 810cm <sup>2</sup>    |
| <b>1210</b>  | 1,210cm <sup>2</sup>  |
| <b>1610</b>  | 1,610cm <sup>2</sup>  |
| <b>2420</b>  | 2,420cm <sup>2</sup>  |
| <b>3220</b>  | 3,220cm <sup>2</sup>  |
| <b>1350</b>  | 1,350cm <sup>2</sup>  |
| <b>2000</b>  | 2,000cm <sup>2</sup>  |
| <b>2700</b>  | 2,700cm <sup>2</sup>  |
| <b>5300</b>  | 5,300cm <sup>2</sup>  |
| <b>7900</b>  | 7,900 cm <sup>2</sup> |
| <b>15800</b> | 15,800cm <sup>2</sup> |
| <b>23700</b> | 23,700cm <sup>2</sup> |
| <b>31600</b> | 31,600cm <sup>2</sup> |

for manual & semi-auto filters only

for automatic filters only

### 6 Connection Type

|            |                  |
|------------|------------------|
| <b>BSP</b> | BSP              |
| <b>NPT</b> | NPT              |
| <b>UNF</b> | Universal Flange |
| <b>D10</b> | DIN/ISO 10       |
| <b>D16</b> | DIN/ISO 16       |
| <b>ANS</b> | ANSI             |
| <b>BSD</b> | BSTD             |

### 7 Filtration Grade

|             |        |
|-------------|--------|
| <b>100M</b> | 100mic |
| <b>130M</b> | 130mic |
| <b>200M</b> | 200mic |
| <b>300M</b> | 300mic |
| <b>500M</b> | 500mic |

### 8 Controller Type

|                     |                                |
|---------------------|--------------------------------|
| <b>SG1 DC SOL</b>   | SG controller + DC solenoids   |
| <b>F1-10 DC SOL</b> | Filtron 1-10 DC + DC solenoids |
| <b>SOL DC+DP</b>    | DC solenoids + DP sensor       |
| <b>SOL AC+DP</b>    | AC solenoids + DP sensor       |
| <b>SOL DC</b>       | DC solenoids                   |
| <b>SOL AC</b>       | AC solenoids                   |
| <b>DP</b>           | DP only                        |
| <b>W/O CONT</b>     | Without controller             |

### Standards

- All automatic filters are PN10
- All manual and semi-auto metal filters are PN10
- All manual and semi-auto plastic filters are PN8
- All automatic filters up to 10" with 7,900 cm<sup>2</sup>, with controller come with SG1 BT controller
- All automatic filters (multi systems) come with Filtron 1-10 controller
- All automatic filters come with Aquative DC solenoid
- All automatic vertical filters come with 1" socket for ait valve (the air valve is not part of the unit as default)

# ScreenGuard™ PPS

## PRE-PUMP STRAINER

Netafim Pre-Pump strainer the ideal for protecting pumps from large particles that can cause damage and ensure higher performance and efficiency of the pump over time.



Maximum protection



High Corrosion and UV resistance



Ease of operation

## / Benefits & Features

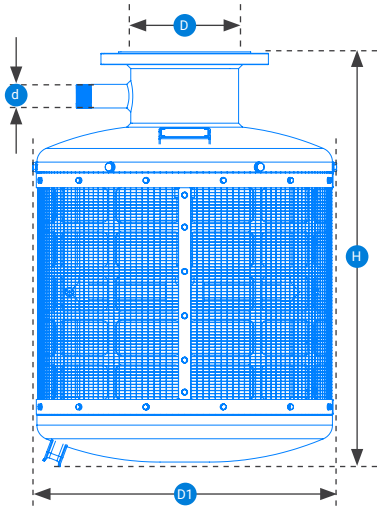
- **Superb UV and corrosion protection** High quality carbon steel with dual coating for better UV and corrosion protection
- **Maximum protection** Protecting the pumps from large particles that can affect the performance and longevity
- **Several screens options** Available from 3" to 10" with 1,200- and 2,400-microns SST-316L screen
- **Simplicity** Easy installation and maintenance

## / Applications

- ✓ All irrigation systems using surface water from reservoir, dam, canal and more, to be installed in the pump suction point

→ Logistic Data

| Model  | D (inch) | Length (mm) | Width (mm) | Height (mm) | Shipping Weight (kg) |
|--------|----------|-------------|------------|-------------|----------------------|
| PPS3F  | 3"       | 420         | 420        | 750         | 37                   |
| PPS4F  | 4"       |             |            |             | 38                   |
| PPS6F  | 6"       | 520         | 520        | 750         | 49                   |
| PPS8F  | 8"       | 620         | 620        | 950         | 67                   |
| PPS10F | 10"      |             |            |             | 71                   |



→ Technical Information

| Model  | D      | D1   | H    | Max Flow Rate | Available Connections | d Self - Cleaning Connection | Minimum Required Flow Rate for Self Cleaning Mechanism (m³/h) | Minimum Required Pressure for Self Cleaning Mechanism (bar) |
|--------|--------|------|------|---------------|-----------------------|------------------------------|---|---|
|        | (inch) | (mm) | (mm) | (m³/h)        |                       | (inch)                       |   |   |
| PPS3F  | 3"     | 400  | 625  | 75            | All flange standards  | 1" BSP/NPT                   | 2.5   | 1.5   |
| PPS4F  | 4"     |      |      | 100           |                       |                              |   |   |
| PPS6F  | 6"     | 500  | 150  |               |                       |                              |   |   |
| PPS8F  | 8"     | 600  | 830  | 300           |                       |                              |   |   |
| PPS10F | 10"    |      |      | 500           |                       |                              |   |   |

→ Material Information

| Part                       | Material |
|----------------------------|----------|
| Filter body                | ST 37.2  |
| Screen                     | SST 316  |
| Bolts and washers          | SST 316  |
| Rotating sprinkler adapter | Nylon 6  |
| Rotating sprinkler bearing | Nylon 6  |
| Rotating sprinkler         | PVC      |
| Spray nozzles              | Nylon 6  |

→ Catalog Numbers

| Model  | 1,200 mic.   |              |      |              | 2,400 mic.   |              |      |              |
|--------|--------------|--------------|------|--------------|--------------|--------------|------|--------------|
|        | DIN 10       | DIN 16       | BSTD | ANSI         | DIN 10       | DIN 16       | BSTD | ANSI         |
| PPS3F  | U/R          |              | U/R  | U/R          | U/R          |              | U/R  | U/R          |
| PPS4F  | U/R          |              | U/R  | U/R          | U/R          |              | U/R  | U/R          |
| PPS6F  | 71980-000021 |              | U/R  | 71980-000022 | 71980-000023 |              | U/R  | 71980-000024 |
| PPS8F  | 71980-000025 | 71980-000026 | U/R  | 71980-000036 | 71980-000027 | 71980-000028 | U/R  | 71980-000037 |
| PPS10F | 71980-000029 | 71980-000033 | U/R  | 71980-000038 | 71980-000034 | 71980-000035 | U/R  | 71980-000039 |

UR = Upon Request

# / Hydrocyclone





# Hydrocyclone

## SAND SEPARATORS

Utilizing a conical shaped separator that accelerates the velocity of water maximizing separation of sand and other solid matter to protect the irrigation components from damage and abrasion.



Maximum protection



High corrosion and UV resistance



Ease of operation

## / Benefits & Features

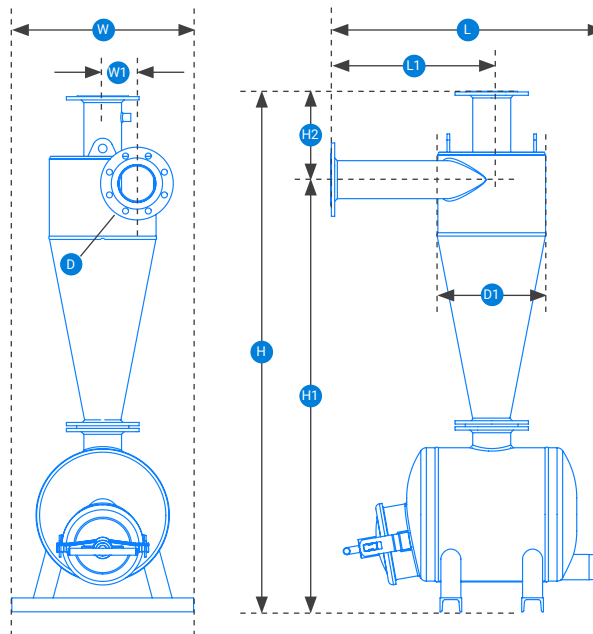
- **Maximum protection** Conical shape accelerates the velocity of the water increasing centrifugal forces and maximizing separation
- **Industry leading** Made from high quality carbon steel ST37.2, treated with sand blasting of up to Sa 2.5 grade
- **High corrosion & UV resistance** Coated with dual layer electrostatic baked powder coating (Phenolic & Polyester) with thickness of 150 micron each
- **Easy operation** No moving parts or screens and no head loss build-up or clogging during separation
- **Specially designed** Conical rubber protection to protect the cone from erosion
- **Flushing frequency reduction** Large holding capacity of sedimentation tank reduces flushing frequency
- **Variety of end connection** Wide range of end connection and sedimentation tanks capacity
- **Max. operating pressure** 10bar (145psi)

# / Applications

- ✓ For separation of sand and other solid matter from water
- ✓ Protection of valves and irrigation systems from damage/abrasion caused by sand and other solid matter
- ✓ Pre-filtering of water with high loads of sand
- ✓ For irrigation systems irrigating with well water

## → Logistic Data

| Hydrocyclone Model | Sedimentation Chamber Model | Dimensions |           |        |         |         |        |         |        |         | Drain Socket Diameter |
|--------------------|-----------------------------|------------|-----------|--------|---------|---------|--------|---------|--------|---------|-----------------------|
|                    |                             | D (inch)   | D1 (inch) | H (mm) | H1 (mm) | H2 (mm) | L (mm) | L1 (mm) | W (mm) | W1 (mm) |                       |
| 2"                 | 12L - 3" Vic                | 2"         | 8"        | 900    | 755     | 145     | 562    | 305     | 320    | 80      | 2"                    |
| 3"                 | 12L - 3" Vic                | 3"         | 8"        | 930    | 765     | 165     | 562    | 305     | 320    | 65      | 2"                    |
| 3"                 | 30L - 3" Vic                | 3"         | 8"        | 1,032  | 867     | 165     | 797    | 305     | 400    | 65      | 2"                    |
| 3" Super           | 12L - 3" Vic                | 3"         | 8"        | 930    | 765     | 165     | 562    | 305     | 320    | 65      | 2"                    |
| 3" Super           | 30L - 3" Vic                | 3"         | 8"        | 1,032  | 867     | 165     | 797    | 305     | 400    | 65      | 2"                    |
| 4"                 | 60L - 4" Flange             | 4"         | 12"       | 1,550  | 1,285   | 265     | 800    | 465     | 550    | 104     | 2"                    |
| 4" Super           | 60L - 4" Flange             | 4"         | 16"       | 1,765  | 1,495   | 270     | 835    | 500     | 550    | 138     | 2"                    |
| 4" Super           | 120L - 4" Flange            | 4"         | 16"       | 1,883  | 1,613   | 270     | 967    | 500     | 650    | 138     | 2"                    |
| 6"                 | 120L - 8" Flange            | 6"         | 20"       | 1,996  | 1,671   | 325     | 1,037  | 605     | 650    | 165     | 2"                    |
| 6" Super           | 120L - 8" Flange            | 6"         | 24"       | 2,300  | 1,940   | 360     | 1,087  | 655     | 650    | 215     | 2"                    |
| 6" Super           | 240L - 8" Flange            | 6"         | 24"       | 2,414  | 2,054   | 360     | 1,223  | 655     | 750    | 215     | 2"                    |
| 8"                 | 240L - 8" Flange            | 8"         | 30"       | 2,897  | 2,492   | 405     | 1,273  | 705     | 750    | 265     | 2"                    |

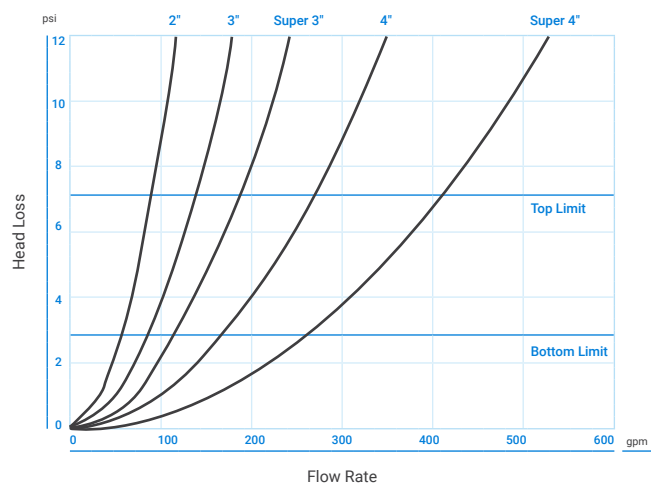
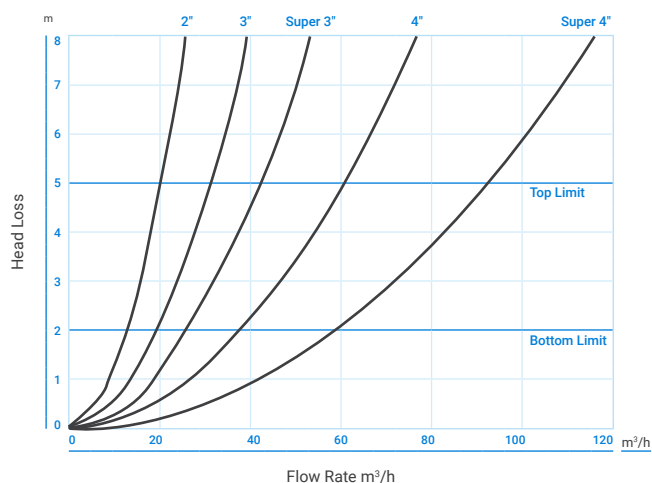


| Model | In / Out Diameter (inch) | Sedimentation Tank Capacity |         | Recommended Flow Rate Range |     |     |       | Connection Types   |
|-------|--------------------------|-----------------------------|---------|-----------------------------|-----|-----|-------|--------------------|
|       |                          |                             |         | m³/h                        |     | gpm |       |                    |
|       |                          | Liter                       | Gallons | Min                         | Max | Min | Max   |                    |
| 2"    | 2"                       | 12                          | 3       | 12.5                        | 20  | 55  | 88    | BSP / Victaulic    |
| 3"    | 3"                       | 12 / 30                     | 3 / 8   | 19.5                        | 30  | 86  | 132   | BSP / Vic / Flange |
| 3"S   | 3"                       | 12 / 30                     | 3 / 8   | 27                          | 42  | 119 | 185   | BSP / Vic / Flange |
| 4"    | 4"                       | 60                          | 16      | 35                          | 61  | 154 | 269   | Vic / Flange       |
| 4"S   | 4"                       | 60 / 120                    | 16 / 32 | 59                          | 95  | 260 | 418   | Vic / Flange       |
| 6"    | 6"                       | 120                         | 32      | 88                          | 147 | 387 | 647   | Vic / Flange       |
| 6"S   | 6"                       | 120 / 240                   | 32 / 63 | 126                         | 205 | 555 | 903   | Vic / Flange       |
| 8"    | 8"                       | 240                         | 63      | 205                         | 400 | 903 | 1,761 | Vic / Flange       |

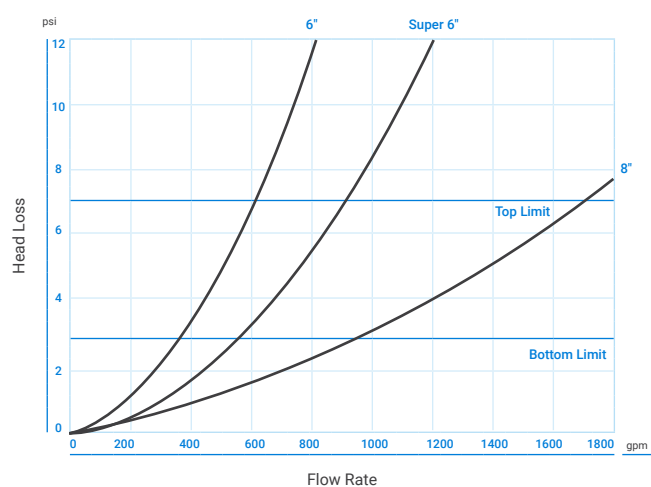
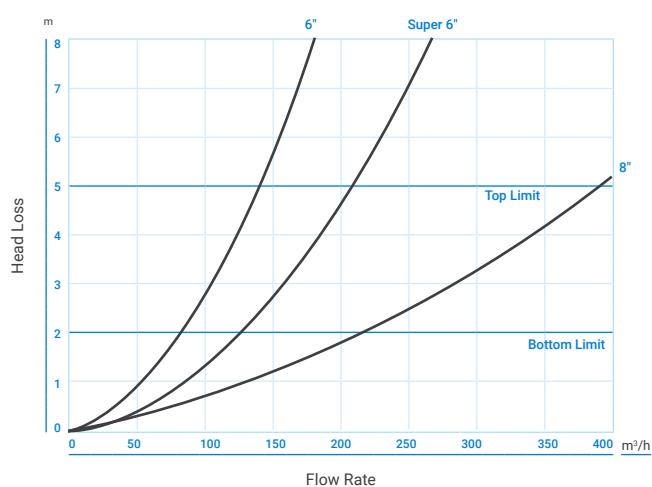
Flow rate are based on recommended head loss of 2- 5m' (3 - 7psi)

## → Head Loss

2" - 4"



6" - 8"



## → Catalog Numbers

Catalog number starting with 71990 + (any of bellow 6 digits)

| Model    | Tank Capacity |      | BSP    | NPT    | Grooved   |           | ANSI   | BSTD   | ISO10  | ISO16  |
|----------|---------------|------|--------|--------|-----------|-----------|--------|--------|--------|--------|
|          | Lt            | Gal  |        |        | BSP Drain | NPT Drain |        |        |        |        |
| 2"       | 12            | 3.2  | 000100 | 000101 | 000102    | 000300    | -      | -      | -      |        |
| 3"       | 12            | 3.2  | 000120 | 000121 | 000122    | 000310    | 000123 | 000124 | 000125 |        |
| 3"       | 30            | 8    | 000421 | 000422 | 000423    | 000424    | 000425 | 000426 | 000427 |        |
| 3" Super | 12            | 3.2  | 000140 | 000141 | 000142    | 000311    | 000143 | 000144 | 000145 |        |
| 3" Super | 30            | 8    | 000186 | 000187 | 000188    | 000420    | 000189 | 000190 | 000191 |        |
| 4"       | 60            | 15.9 | -      | -      | 000162    | 000320    | 000163 | 000164 | 000165 |        |
| 4" Super | 60            | 15.9 | -      | -      | 000182    | 000321    | 000183 | 000184 | 000185 |        |
| 4" Super | 120           | 31.7 | -      | -      | 000280    | 000322    | 000281 | 000282 | 000283 |        |
| 6"       | 120           | 31.7 | -      | -      | 000200    | 000330    | 000201 | 000202 | 000203 |        |
| 6" Super | 120           | 31.7 | -      | -      | 000220    | 000331    | 000221 | 000222 | 000223 |        |
| 6" Super | 240           | 63.4 | -      | -      | 000290    | 000332    | 000291 | 000292 | 000293 |        |
| 8"       | 240           | 63.4 | -      | -      | 000240    | 000340    | 000241 | 000242 | 000243 | 000244 |

# / Filter Config

## Find your right filtration solution in 3 easy steps

**FilterConfig** is a new digital tool that removes the headache from choosing the best filter to optimize your application. Just follow these 3 easy configuration steps to receive ranked recommendations that best fit your requirements:

1. Choose your irrigation system
2. Select your water source
3. Define the water quality

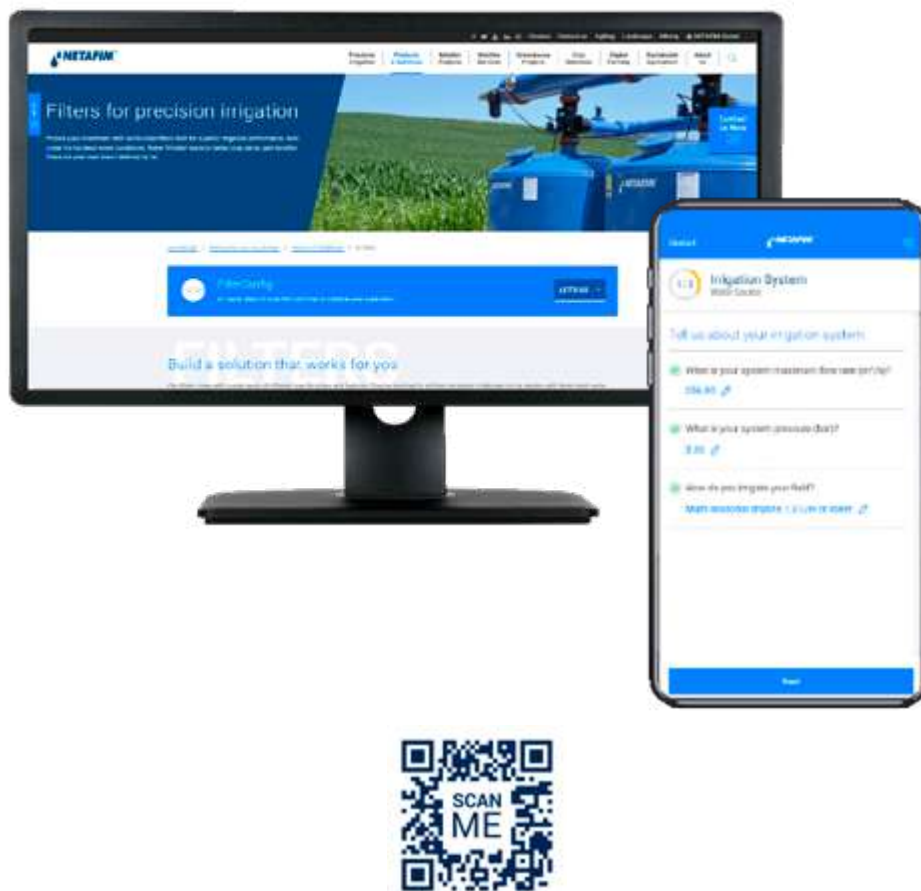
FilterConfig is a Web-based and accessible on desktop and mobile platforms, FilterConfig provides the answers you need anywhere and anytime!

### → Where do I find FilterConfig on Netafim's website?

We know choosing a complete solution can sometimes be difficult. Don't worry, we've made your life easier thanks to Netafim's FilterConfig. You'll find a link to this amazing 3-step app on the filter page as well as on the sprinklers and driplines pages.

**Don't wait...**

**Discover the benefits when using FilterConfig now!**



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