

# TAGLINE Filters

Irrigation high quality all plastic filters for flowrates up to 50 m<sup>3</sup>/h (220 gpm)



flowrates

**up to 50 m<sup>3</sup>/h  
220 gpm**

filtration degrees

**500-80 micron**

diameters

**20mm - 75mm  
¾" - 3"**

maximum operating  
pressure

**8 bar  
116 psi**

## features:

- Easy maintenance: no tools required for extracting the elements from the filter housing for rinsing
- High quality, excellent mechanical strength and corrosion resistance
- Low pressure loss
- Interchangeable filter elements for wide range of flowrates, various filtration degrees and irrigation applications
- Screen cylinders or Disc elements

## Amiad TAGLINE Filter Series

### General

With their Screen and Disc elements Amiad TAGLINE filters are made for wide range of irrigation applications. The TAGLINE filters are available in various filtration degrees to cover the needs of modern irrigation systems. TAGLINE filters are made from high quality engineered plastic materials providing excellent mechanical strength, durability and ease of installation.

Amiad's TAGLINE filters are easy to maintain; no tools are needed for extracting the filter element from the filter housing for rinsing.

### Filter Elements

Amiad supplies a variety of filter elements for its plastic filters that cover a wide range of flowrates, filtration degrees and applications.

#### Screen Elements: [1]

These screen elements are constructed of molded plastic ribs that support a stainless steel weave-wire or weaved polyester screen for filtration degrees of 800 to 50 micron.

#### Perforated Stainless Steel Elements: [2]

Suitable for coarse filtration (straining) between 3,500 and 500 micron.

#### Disc Elements: [3]

The disc elements are designed for effective removal of organic substances. The elements are constructed using engineered plastic discs that are stacked onto a telescopic core. The discs are grooved on both sides and intersect to form the filtration element when compressed.

The effective filtration area is comprised of both the outside surface and the channels formed by the intersecting grooves. Suspended organic particles adhere to the grooved surface adding depth to the filtration process.

Cleaning the disc element is made simple by the unique design of the telescopic core which allows the discs to separate during the cleaning process while maintaining perfect sealing when the element is in the filter housing.



### Filtration Degrees Available

The following table lists the various filter elements of Amiad's TAGLINE filters and the optional filtration degrees for each filter element. For ease of operation and maintenance the various filtration degrees are color coded. Please consult your dealer for the most suitable filter element for your application requirements.

Color	Black	Yellow	Red	White	Blue	Blue
Micron	80	100	130	200	300	500
Mesh	200	155	120	75	50	30
¾", 1"	▲	■▲	■▲	▲	■▲	▲
1½"	▲	■▲●	■▲●	▲●	■▲	▲
2", 2" S, 3"	▲	▲●	▲●	▲●	▲	▲

■ Polyester Screen    ▲ St.St. Weaveire Screen    ● Disc Element

## Technical Specifications

Filter Type	¾"	1"	1½"
<b>General Data</b>			
Maximum flow rate*	3 m <sup>3</sup> /h (13.2 gpm)	5 m <sup>3</sup> /h (22 gpm)	15 m <sup>3</sup> /h (66 gpm)
Inlet/Outlet diameter	20 mm (¾")	25 mm (1")	40 mm (1½")
Filtration degrees	500, 300, 200, 130, 100,80 micron		
Max. working pressure	8 bar (116 psi)		
Max. working temperature	60°C (140°F)		
Working temperature range	60°C (140°F)		
Weight [empty]	0.16 kg (0.35 lbs)	0.17 kg (0.37 lbs)	Screen = 1.0 kg (2.2 lbs) Discs = 1.2 kg (2.6 lbs)

\* Consult Amiad for optimum flow depending on filtration degree & water quality.

## Engineering Data

Filter Element Data		
Filteration area	Screen = 110 cm <sup>2</sup> (17 in <sup>2</sup> )	Screen = 340 cm <sup>2</sup> (52.7 in <sup>2</sup> ) Discs = 460 cm <sup>2</sup> (71.3 in <sup>2</sup> )
Filter Element types	Nylon screen, weave wire screen	Nylon screen, weave wire screen, disc element

Construction Materials*		
Filter housing	Polypropylene	
Filter Lid	Polypropylene	
Housing seal	NBR	
Screen	Construction= Polypropylene Mesh = Nylon Seals = NBR	Construction = Polypropylene Mesh = St. St Seals = NBR
Discs	Construction = Polyethylene Seals: NBR	Construction = Polyethylene Grooved discs = Polyethylene Seals = NBR

\* Amiad offers a variety of construction materials. Consult us for specifications.

## Technical Specifications

Filter Type	2"	2" - S	3"
<b>General Data</b>			
Maximum flowrate*	25 m <sup>3</sup> /h (110 gpm)		50 m <sup>3</sup> /h (220 gpm)
Inlet/Outlet diameter	50 mm (2")		80 mm (3")
Filtration degrees	500, 300, 200, 130, 100,80 micron		
Max. working pressure	8 bar (116 psi)		
Max. working temperature	60°C (140°F)		
Weight [empty]	Screen = 3.6 kg (7.9 lbs) Discs = 4.4 kg (9.7 lbs)	Screen = 4.2 kg (9.2 lbs) Discs = 5.4 kg (11.9 lbs)	Screen = 4.5 kg (9.9 lbs) Discs = 5.7 kg (12.5 lbs)

\* Consult Amiad for optimum flow depending on filtration degree & water quality.

## Engineering Data

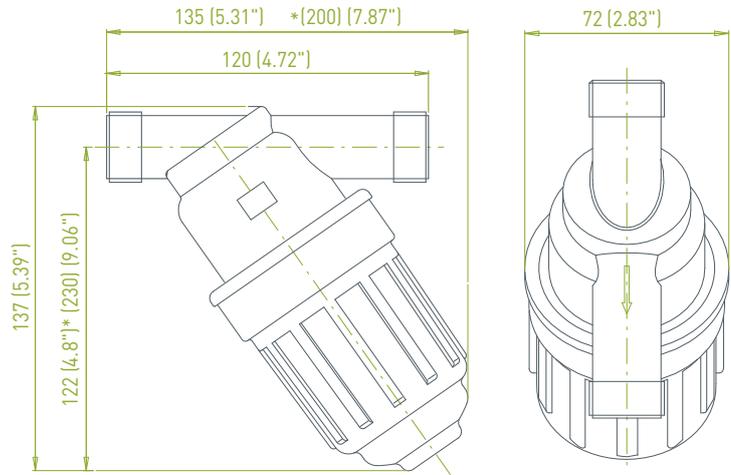
<b>Filter Element Data</b>		
Filtration area	Screen = 465 cm <sup>2</sup> [72 in <sup>2</sup> ] Discs = 790 cm <sup>2</sup> [122.4 in <sup>2</sup> ]	Screen = 700 cm <sup>2</sup> [108.5 in <sup>2</sup> ] Discs = 1185 cm <sup>2</sup> [183.6 in <sup>2</sup> ]
Filter element types	Nylon screen, weave wire screen, disc element	

<b>Construction Materials*</b>	
Filter housing	Polypropylene + Glass Fibers
Filter lid	Polypropylene + Glass Fibers
Tightening nut	Polypropylene + Glass Fibers
Housing seal	NBR
Screen	Construction = Polypropylene Mesh = St. St. or Polyester Seals = NBR
Discs	Construction = Polypropylene Grooved discs = Polypropylene Seals = NBR

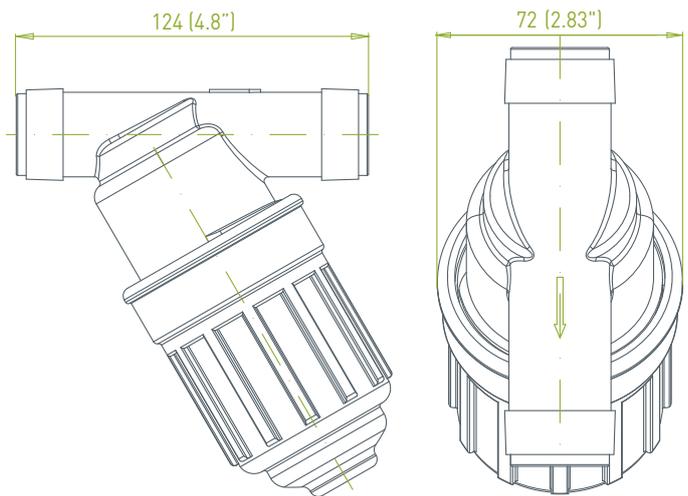
\* Amiad offers a variety of construction materials. Consult us for specifications.

3/4"

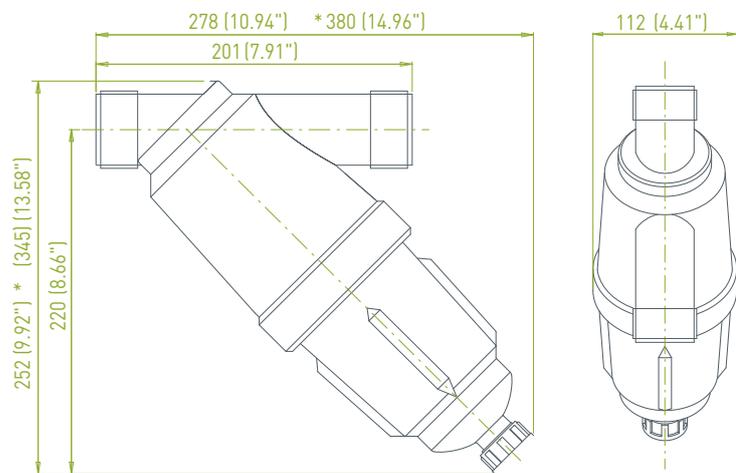
Dimentional Drawing



1"



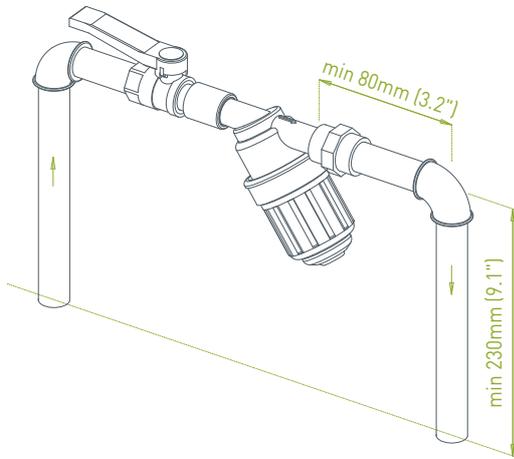
1 1/2"



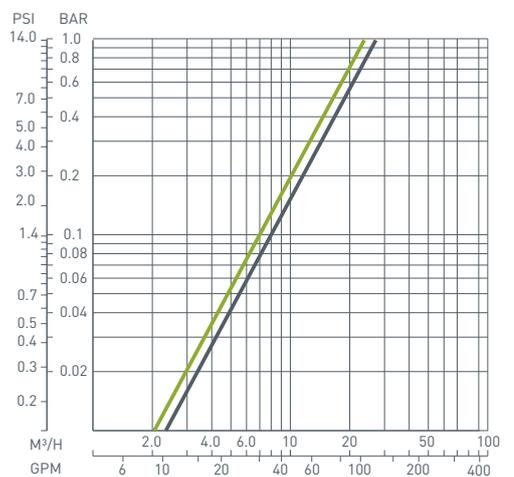
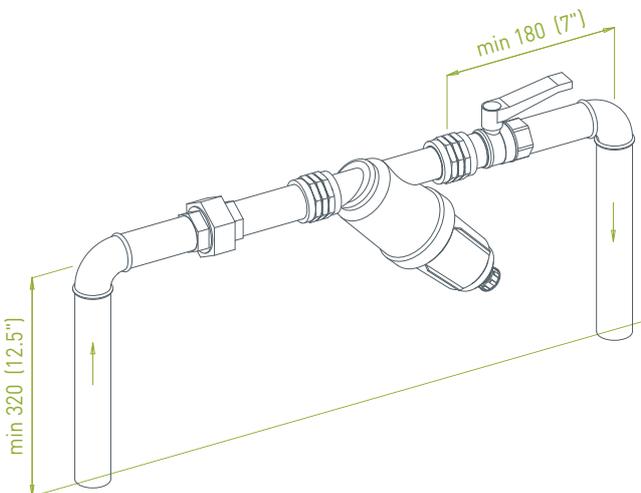
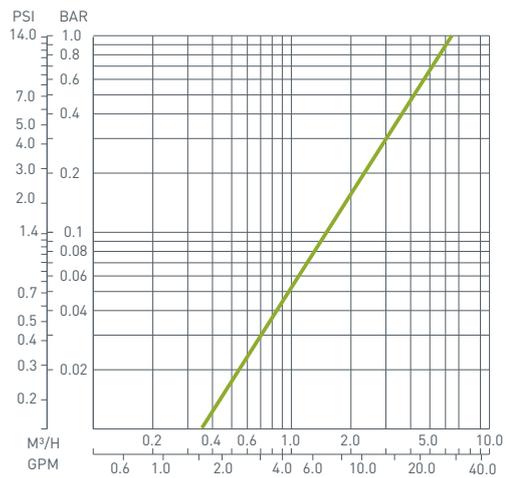
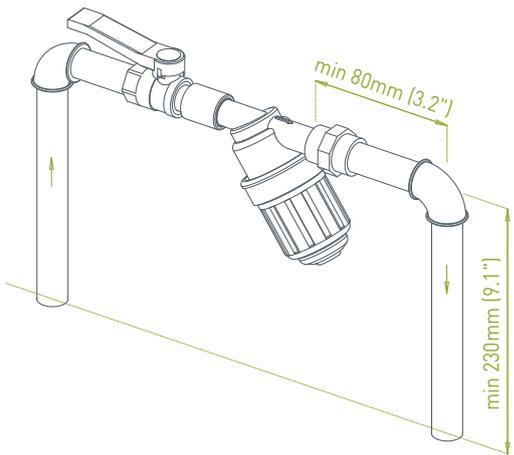
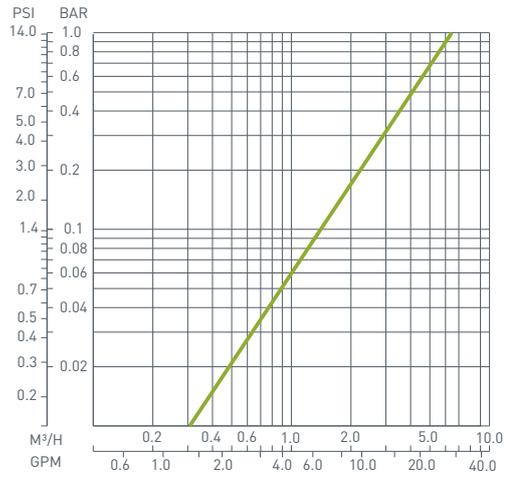
Dim: mm (inch)

\*Approx. length required for maintenance

### Typical Installation Drawing



### Pressure Loss Graph in clean water

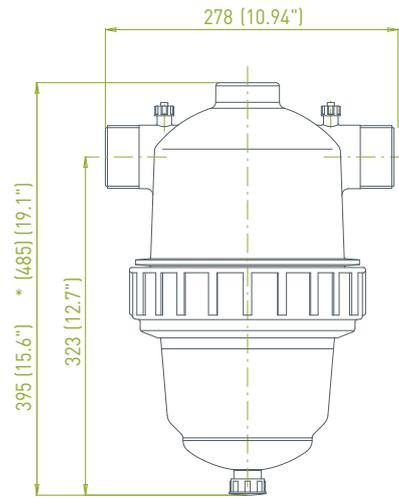


Dim: mm (inch)

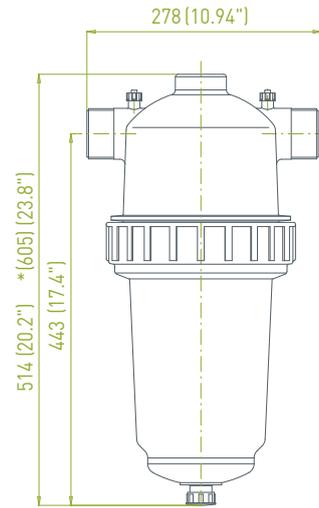
2"



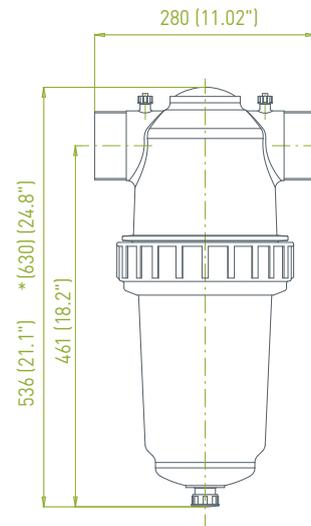
**Dimentional Drawing**



2"-S



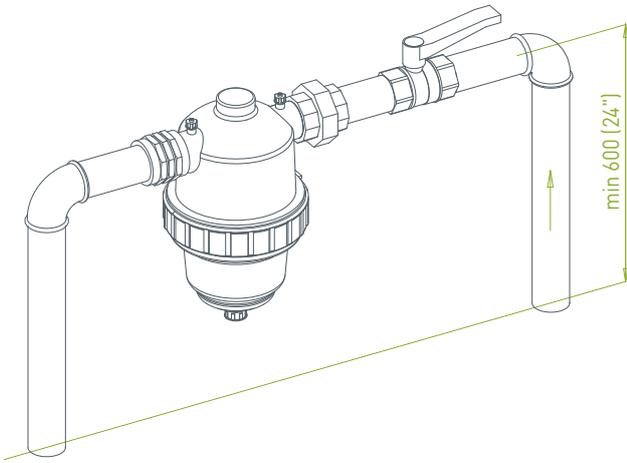
3"



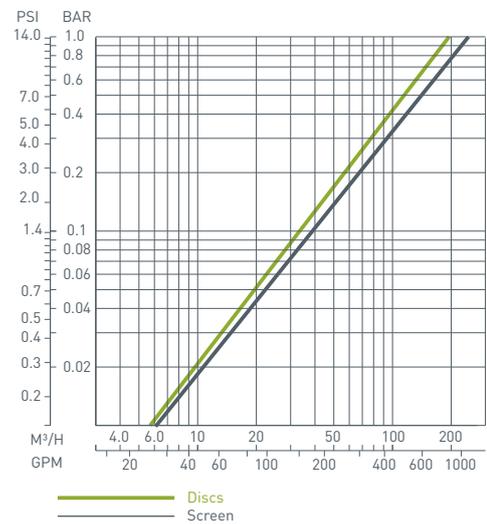
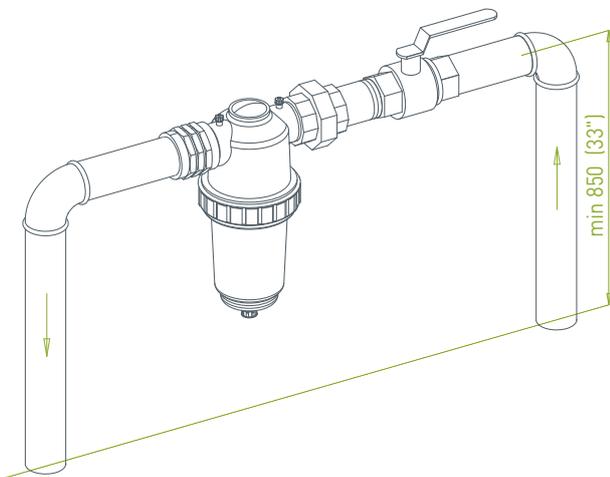
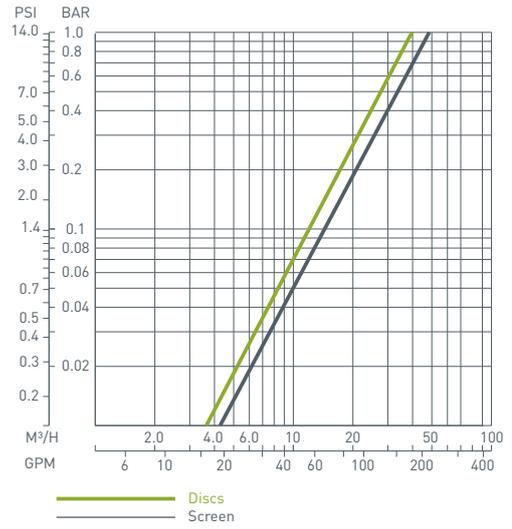
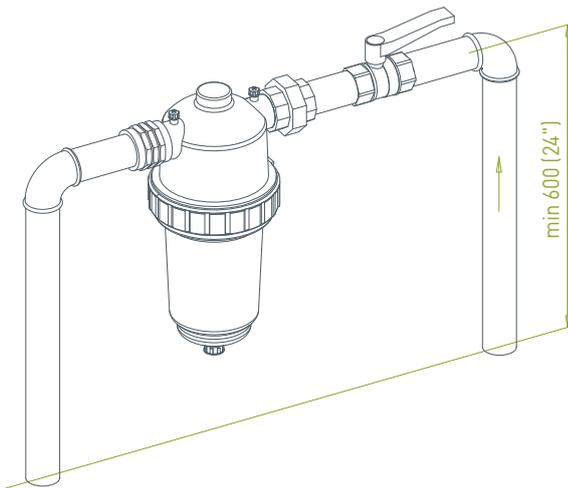
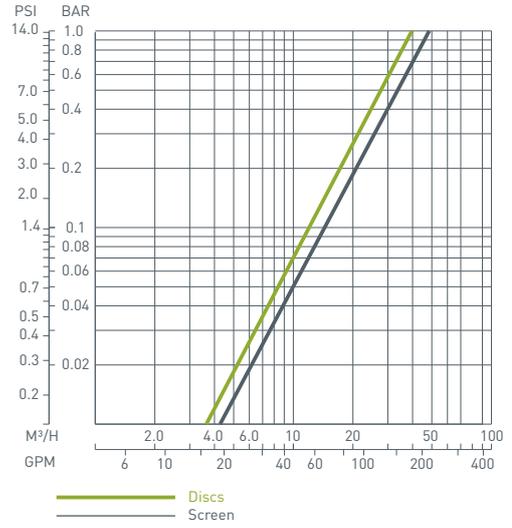
**Dim: mm (inch)**

\*Approx. length required for maintenance

### Typical Installation Drawing



### Pressure Loss Graph in clean water



Dim: mm (inch)

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