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## Filtration systems

### TAGLINE Filters

flow rates	filtration degrees	diameters	max. operating pressure
up to <b>50 m<sup>3</sup>/h</b> ( <b>220 US gpm</b> )	<b>300 – 80 micron</b>	<b>¾" – 3"</b>	<b>8 bar (120 psi)</b>

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



#### 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 flow rates, various filtration degrees and irrigation applications
- Screen cylinders or Disc elements

#### screen filters

## 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 for covering the needs of modern irrigation systems. TAGLINE filters are made from high quality engineering-plastic for 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

For covering a wide range of flow rates, various filtration degrees and a variety of irrigation applications, Amiad supplies two optional filter elements for its TAGLINE series:

#### Screen Elements: (1)

The screen elements are constructed of molded plastic ribs that support a stainless steel weave-wire or weaved nylon mesh for filtration degrees of 80 to 300 micron.

The direction of flow in the screen elements is from the inside out. Suspended solids accumulate on the inner side of the screen and the screen can be easily extracted from the filter housing for manual rinsing.

The screen elements are designed for creating very low head loss, retention of organic substances and are especially suitable for separating inorganic particles.

The screen cylinder incorporates two O-rings to ensure perfect sealing inside the filter housing.



(1)

(2)

screen filtration

## Disc Elements: (2)

The disc elements are made to provide high retention of organic substances and are constructed from plastic discs that are stacked onto a telescopic core.

The discs are grooved on both sides and intersected to form the filtration element when compressed on the telescopic core.

The direction of flow in these elements is from the Outside In along the element, therefore the effective filtration area is comprised of both the outside surface and the channels formed by the intersected 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.

The disc element incorporates two O-rings to ensure perfect sealing inside 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's requirements.

Color	Black	Yellow	Red	White	Brown	Blue
Micron	80	100	130	200	250	300
Mesh	200	155	120	75	60	50
¾", 1"C	■ ▲	■ ▲	■ ▲	■ ▲		■ ▲
1½"	■ ▲	■ ▲ ★	■ ▲ ★	■ ▲	★	■ ▲
2", 3"	▲	▲ ★	▲ ★	▲	★	▲

■ Nylon Screen ▲ Weave Wire 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 US gpm)	5 m <sup>3</sup> /h (22 US gpm)	15 m <sup>3</sup> /h (66 US gpm)
Inlet/Outlet diameter	¾" (20 mm)	1" (25 mm)	1½" (40 mm)
Filtration degrees	300, 250, 200, 130, 100, 80 micron		
Min. working pressure	8 bar (120 psi)		
Max. working temperature	60°C (140°F)		
Working temperature range	60°C (140°F)		
Weight (empty)	Screen = 0.16 kg (0.35 lb)	0.17 kg (0.37 lb)	Screen = 1.0 kg (2.2 lb) Discs = 1.2 kg (2.6 lb)

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

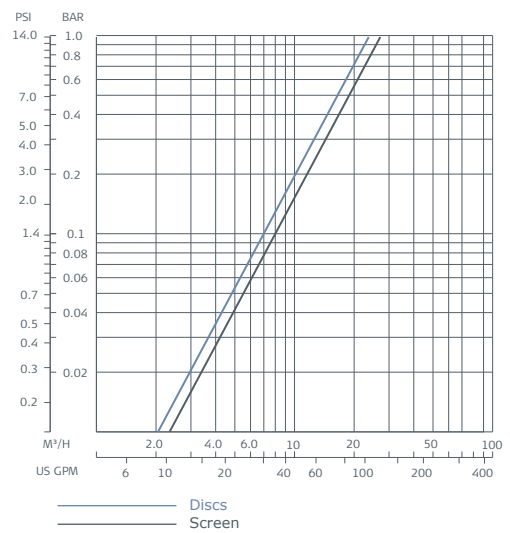
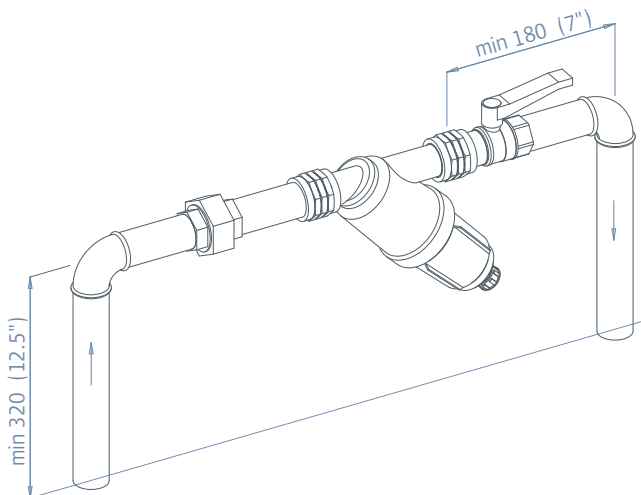
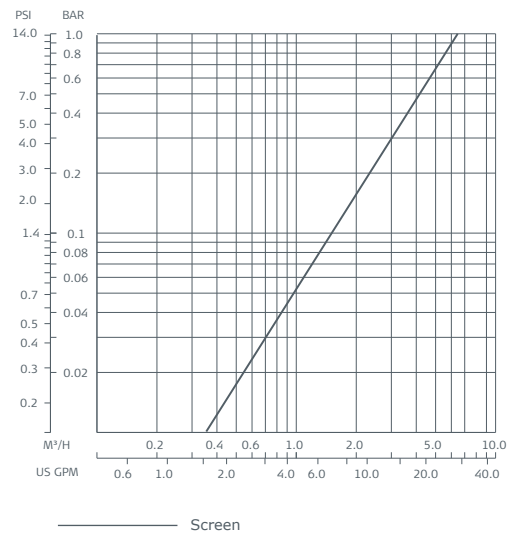
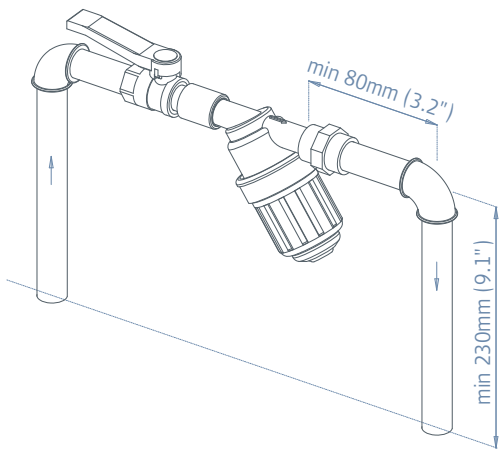
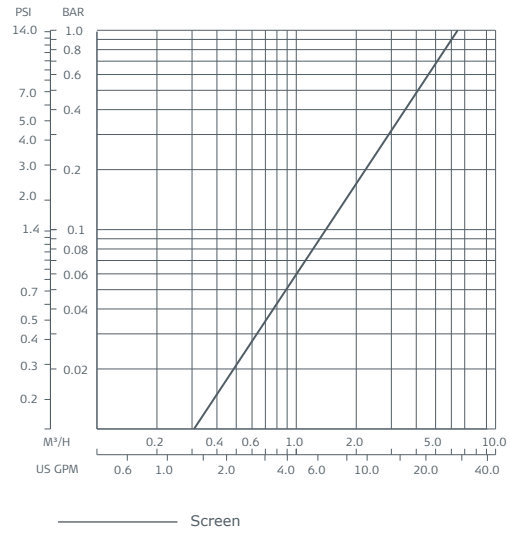
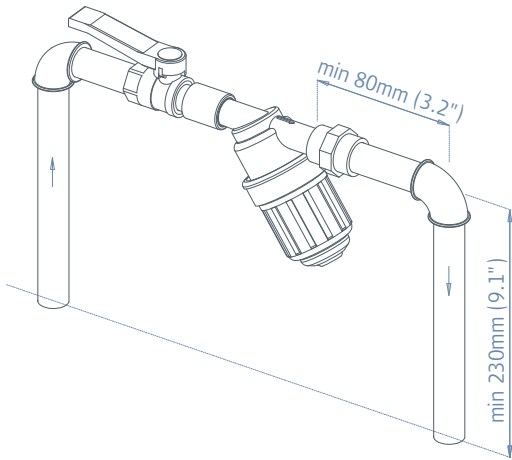
## Engineering Data

<b>Filter Element Data</b>			
Filter area	Screen = 110 cm <sup>2</sup> (17 in <sup>2</sup> )	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

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

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

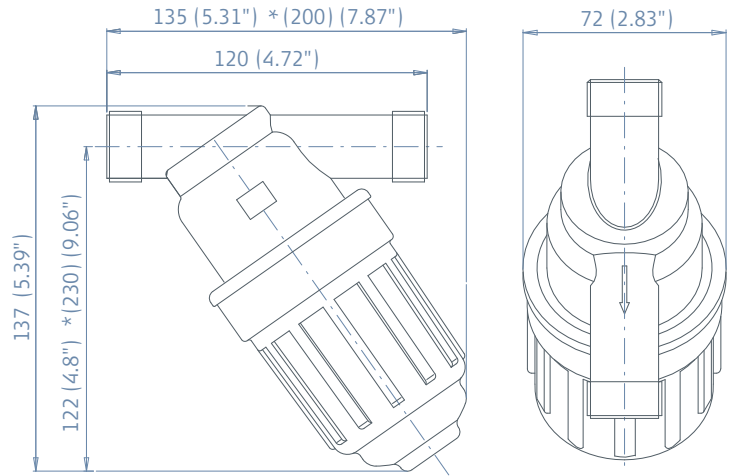
## Pressure Loss Graphs



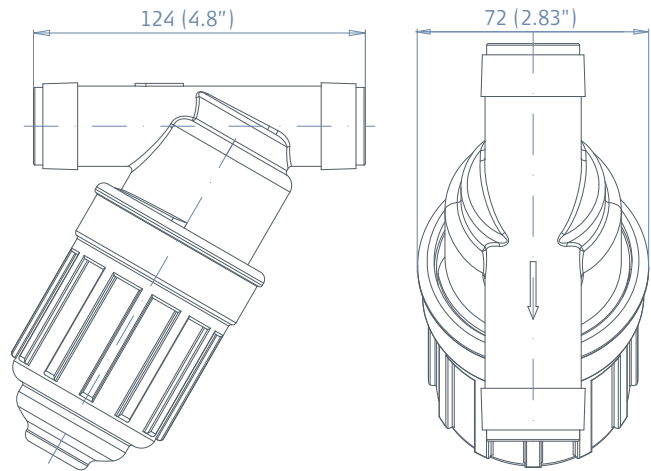
Dim. In mm (inch)

Filtration systems

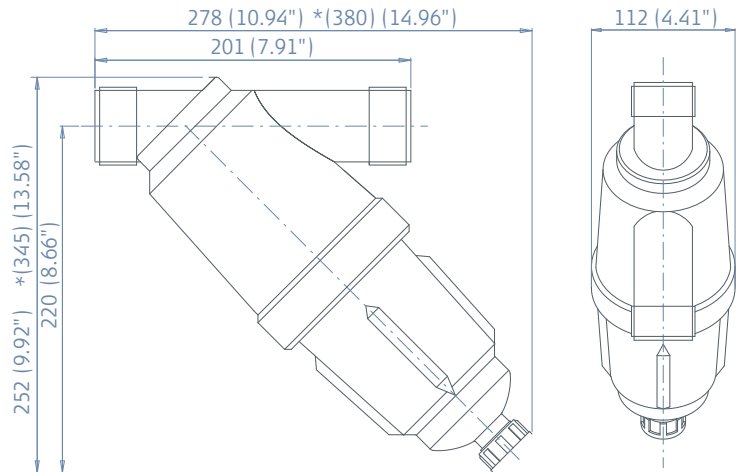
3/4"



1"



1 1/2"



Filtration systems

Dim. In mm (inch)

\*Approx. length required for maintenance

## Technical Specifications

Filter Type	2"	2" - S	3"
<b>General Data</b>			
Maximum flow rate*	25 m <sup>3</sup> /h (110 US gpm)	25 m <sup>3</sup> /h (110 US gpm)	50 m <sup>3</sup> /h (220 US gpm)
Inlet/Outlet diameter	2" (50 mm)	2" (50 mm)	3" (80 mm)
Filtration degrees	300, 250, 200, 130, 100, 80 micron		
Min. working pressure	8 bar (120 psi)		
Max. working temperature	60°C (140°F)		
Weight (empty)	Screen = 3.6 kg (7.9 lb) Discs = 4.4 kg (9.7 lb)	Screen = 4.2 kg (9.2 lb) Discs = 5.4 kg (11.9 lb)	Screen = 4.5 kg (9.9 lb) Discs = 5.7 kg (12.5 lb)

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

## Engineering Data

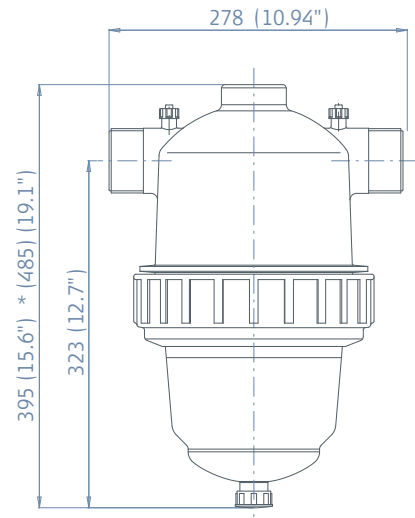
<b>Filter Element Data</b>			
Filter area	Screen = 465 cm <sup>2</sup> (72 in <sup>2</sup> ) Discs = 790 cm <sup>2</sup> (122.4 in <sup>2</sup> )	Screen = 700 cm <sup>2</sup> (108.5 in <sup>2</sup> ) Discs = 1185 cm <sup>2</sup> (183.6 in <sup>2</sup> )	Screen = 700 cm <sup>2</sup> (108.5 in <sup>2</sup> ) 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

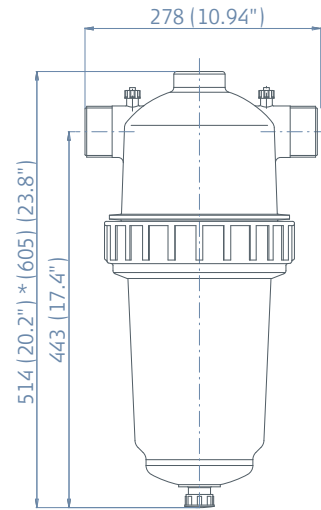
\* Amiad offers a variety of construction materials. Consult us for specifications

## Filtration systems technical data

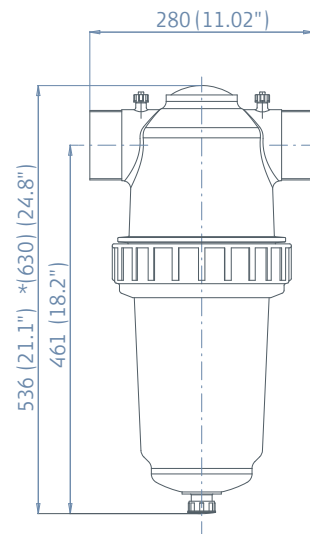
2"



2" - S



3"

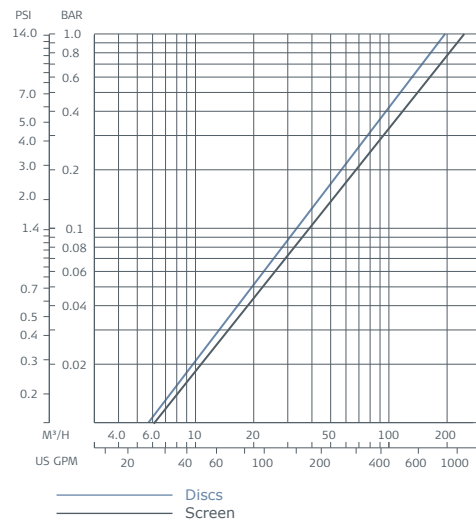
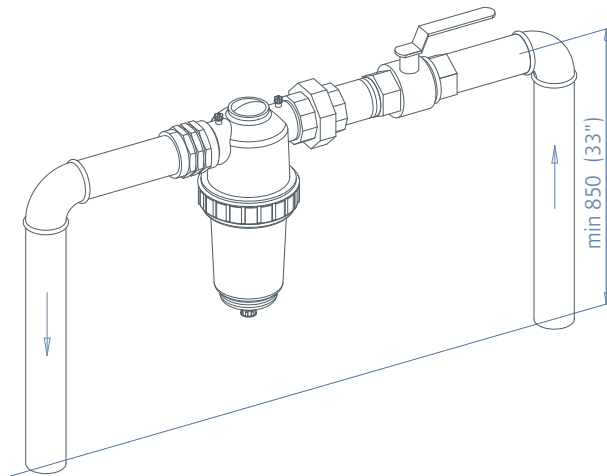
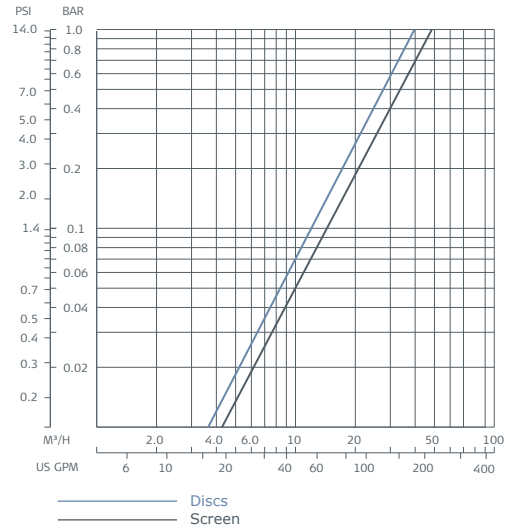
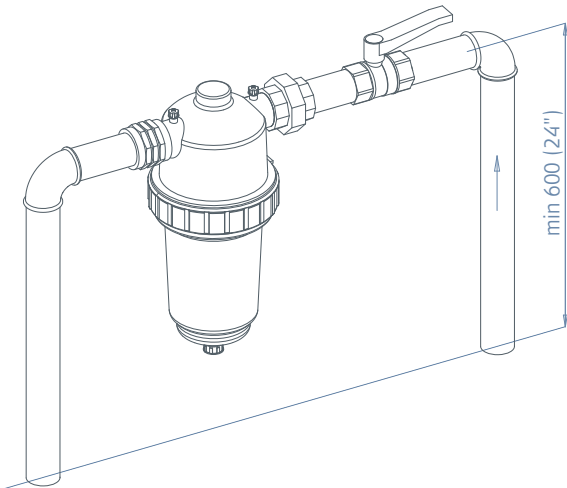
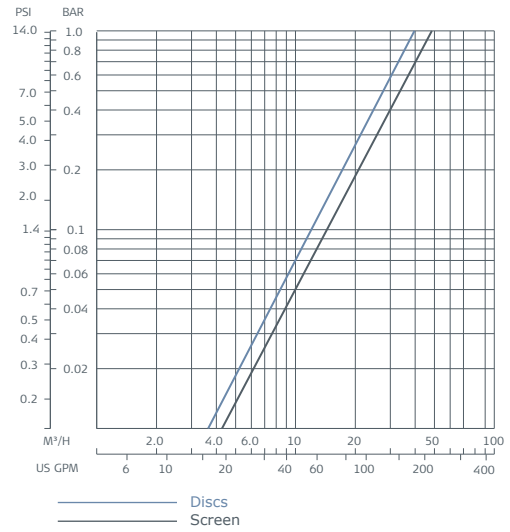
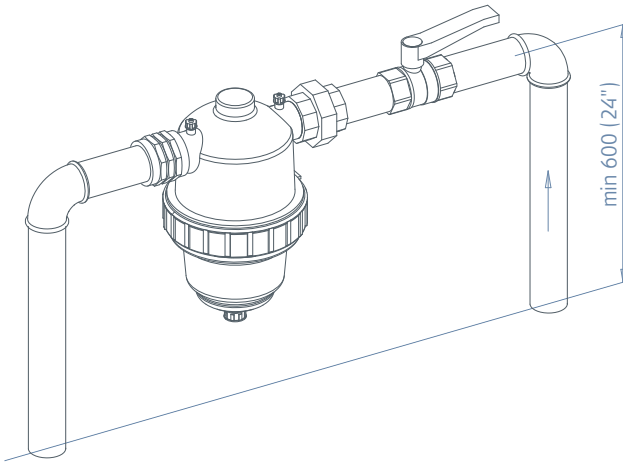


Screen Filtration systems

Dim. In mm (inch)  
\*Approx. length required for maintenance



## Pressure Loss Graphs



Dim. In mm (inch) **Screen filter assembly**

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