

## Plastic Filters

Durable high quality Plastic Filters for wide range of filtration applications



flow rates

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

filtration degrees

**3500-50 micron**

diameters

**¾" - 3"  
20-80 mm**

max. operating  
pressure

**150 psi  
10 bar**

### features:

- Interchangeable filter elements for a wide range of flow rates, with multiple filtration degrees
- Excellent mechanical strength, corrosion resistant for chemical compatibility
- Low pressure loss
- Easy to install and maintain, no tools required for rinsing
- Available with exclusive features for semi-automatic cleaning
- Suitable for a wide range of applications for the irrigation, municipal and industrial markets

## Amiad Plastic Filters

### General

With a variety of filter elements, Amiad's all purpose plastic filters are ideally suited for a wide range of filter applications and are easy to install and maintain. They are constructed from high quality engineered-plastic materials providing excellent mechanical strength, durability and chemical resistance.

No tools are required for dismantling or removing the filter element from the filter housing for rinsing. Amiad plastic filters can be upgraded to semi-automatic operation by adding one of Amiad's exclusive Brushaway or Scanaway assemblies. These allow the user to manually clean the filter element without dismantling the filter.

### Filter Elements

Amiad offers a variety of filter elements and filtration degrees that are suitable for a wide range of flow rates and applications.

#### Weavewire Screen Elements: [1]

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

#### Perforated Stainless Steel Screen 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 and filtration degrees available for Amiad's Plastic Filter line. For ease of operation and maintenance, the filter elements are color coded. Please consult with your dealer for assistance in selecting the proper filter element and filtration degree for your application.

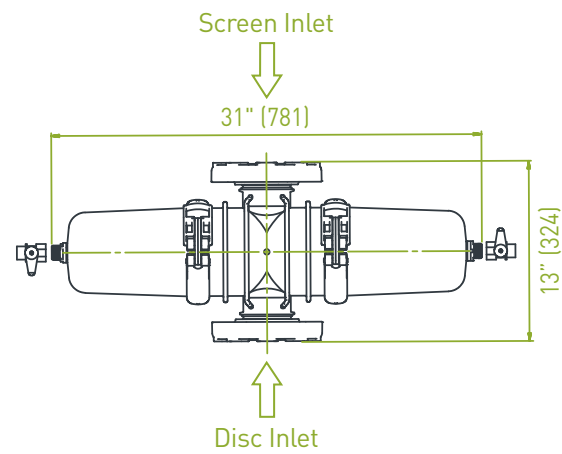
Disc color	-	-	Black	Red	Yellow	-	-	-	-	-	-
Screen color	Orange	Black	Yellow	Red	White	Blue	Green	Gray	-	-	-
Micron	50	80	100	130	200	300	500	800	1500	2500	3500
Mesh	300	200	155	120	80	50	30	20	10	6	4
¾", 1"C	▲	▲	■▲	■▲	▲	■▲	▲				
1"S - 1½"S	▲	▲	■▲●	■▲●	▲●	■▲	▲				
2" - 3" 2"T - 3"T	▲	▲	▲●	▲●	▲●	▲	▲★	★	★	★	★
3" TDS			▲●	▲●	▲●						

■ Polyester screen    ▲ St.St. weaveiree screen    ● Disc element    ★ Perforated screen

3" TDS

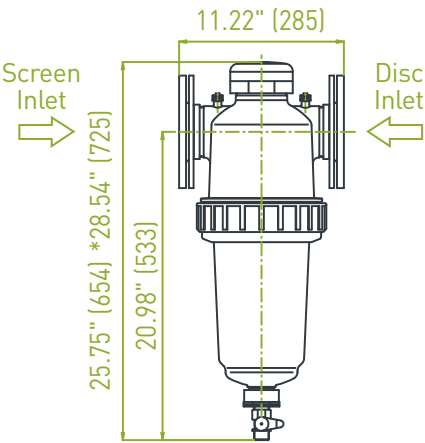


Dimentional Drawing

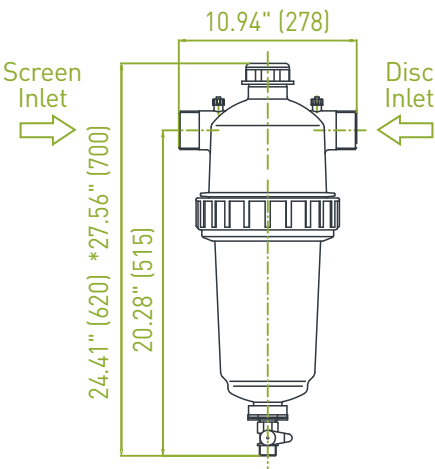


\* Threaded connections also available

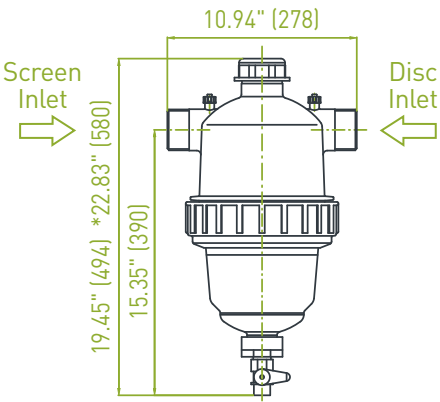
3" T



2" T-Super



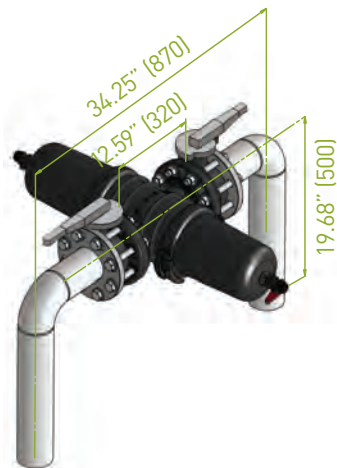
2" T



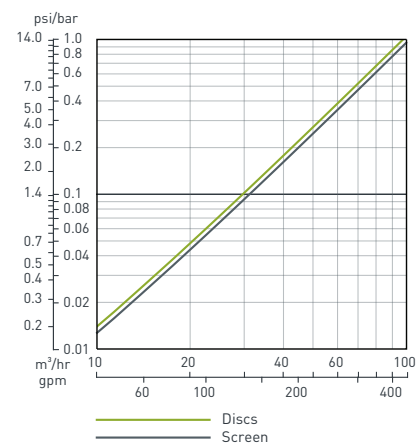
Dim: inch (mm)  
\*Approx. length required for maintenance

## 3" TDS

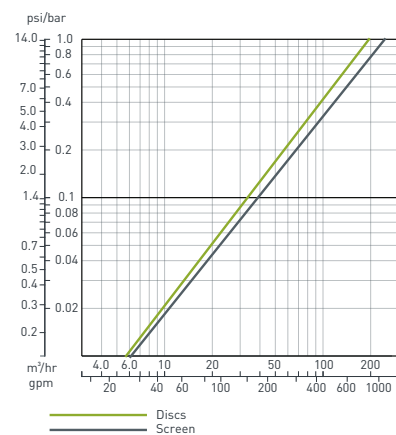
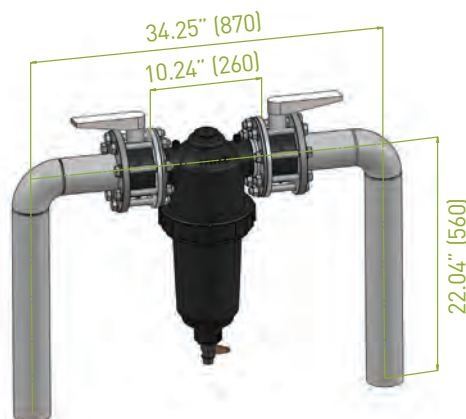
## Typical Installation Drawing



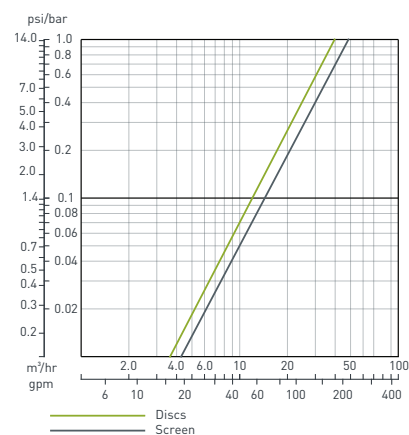
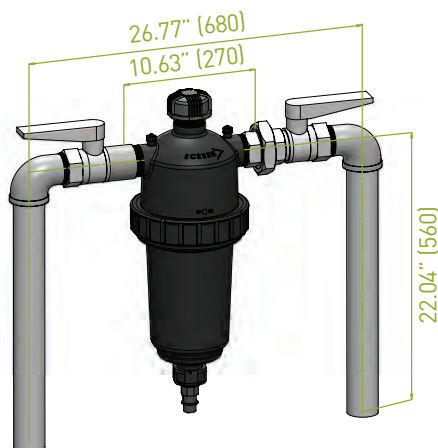
## Pressure Loss Graph in clean water



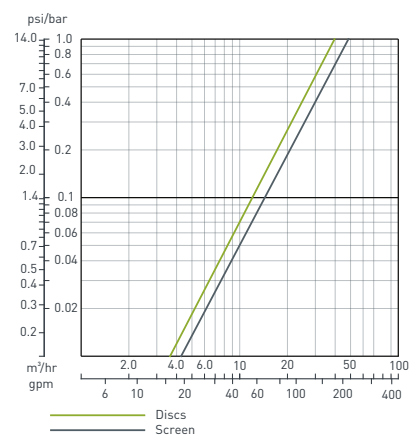
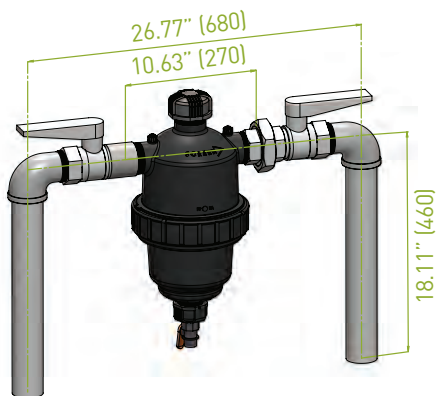
## 3" T



## 2" T-Super



## 2" T

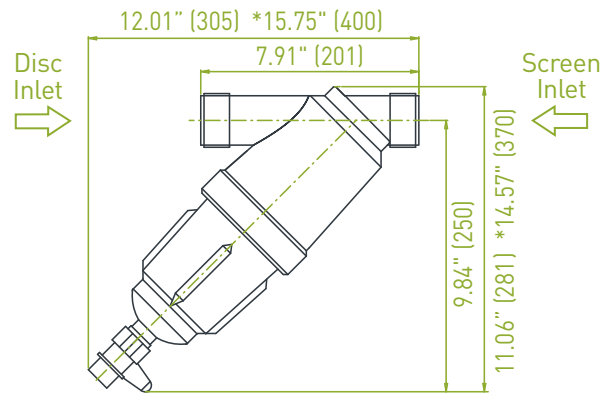


Dim: inch (mm)

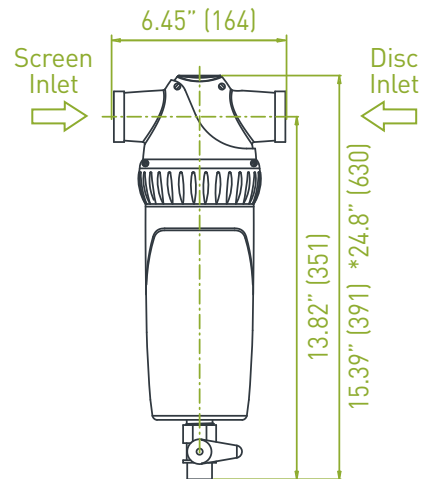
1½" Super



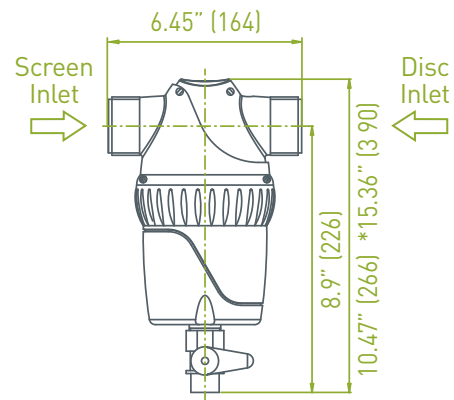
Dimentional Drawing



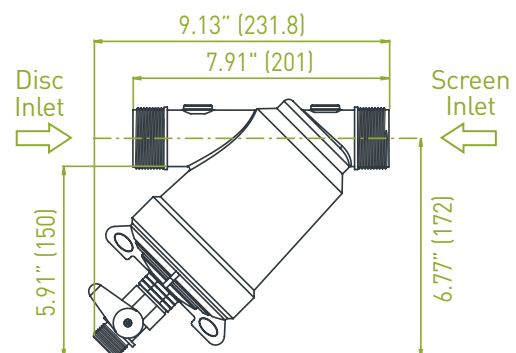
1½" T-Super



1½" T



1½" Compact

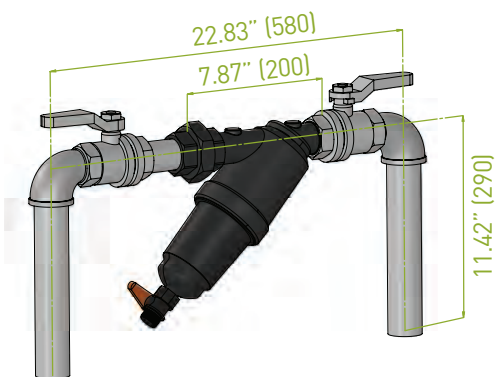


Dim: inch (mm)

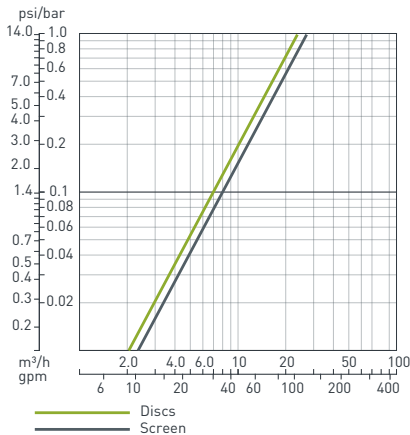
\*Approx. length required for maintenance

1½" Super

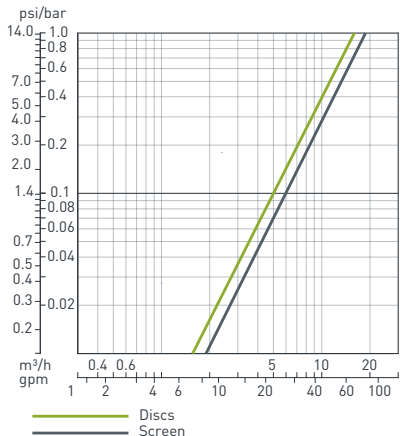
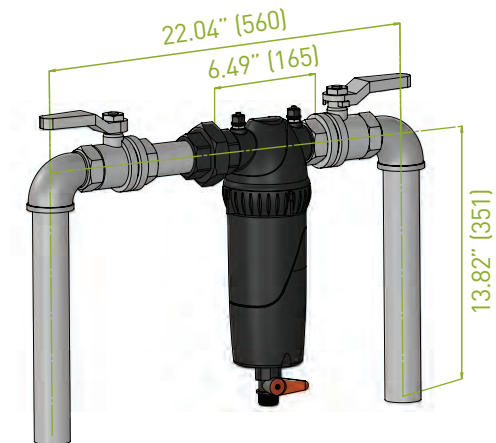
Typical Installation Drawing



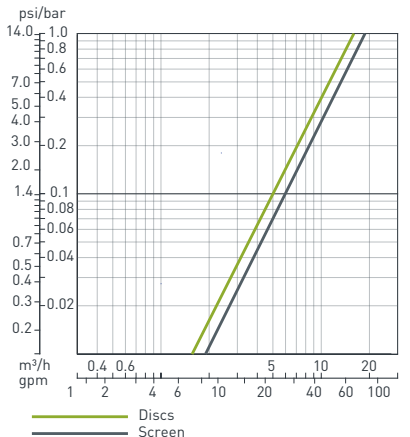
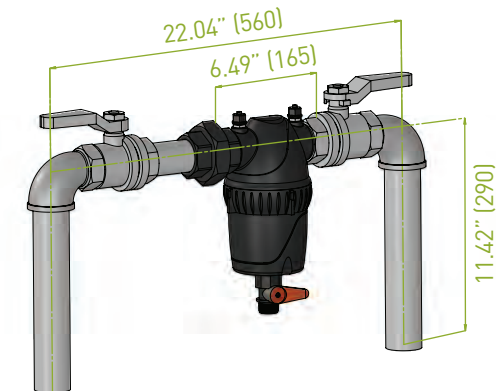
Pressure Loss Graph in clean water



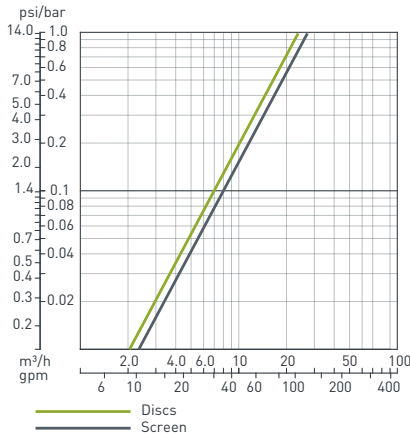
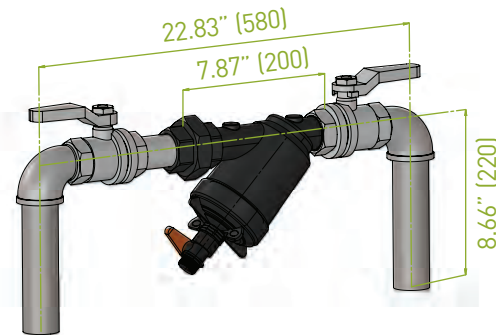
1½" T-Super



1½" T



1½" Compact



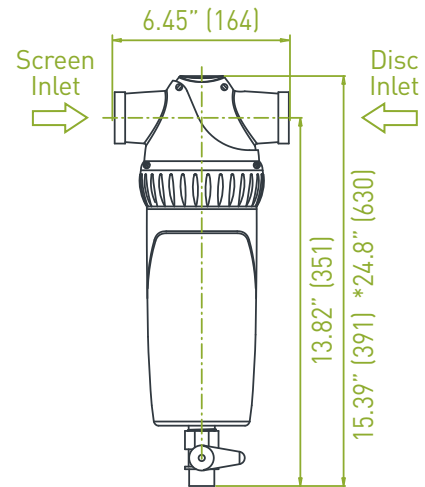
Dim: inch (mm)



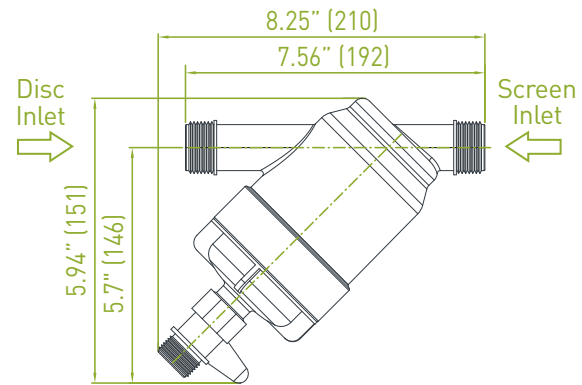
## 1" T-Super



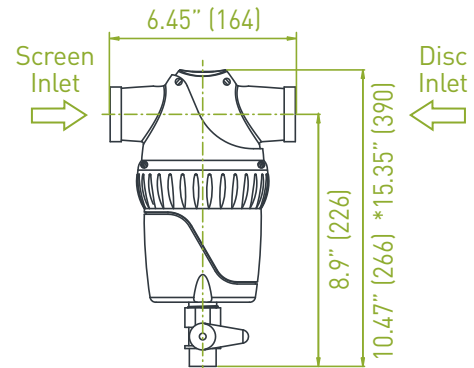
## Dimentional Drawing



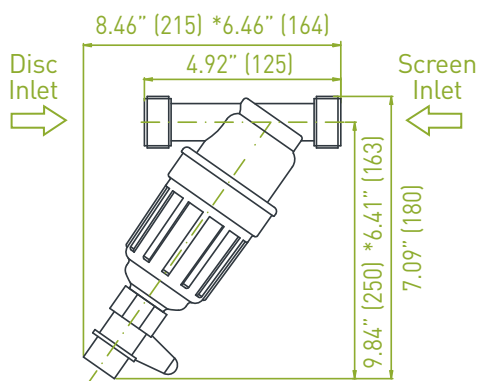
## 1" Super



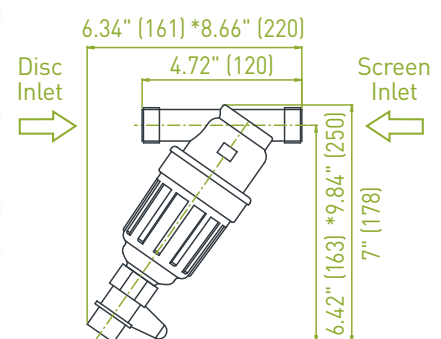
## 1" T



## 1" Compact



## 3/4"



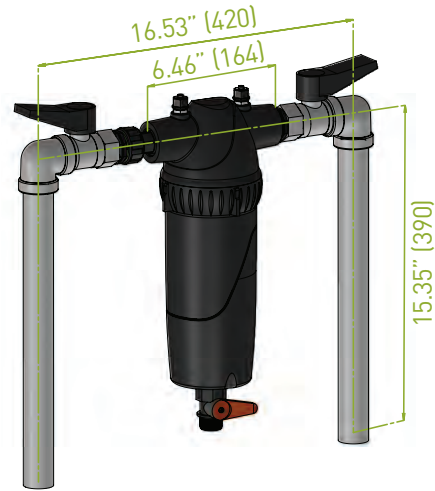
Dim: inch (mm)

\*Approx. length required for maintenance

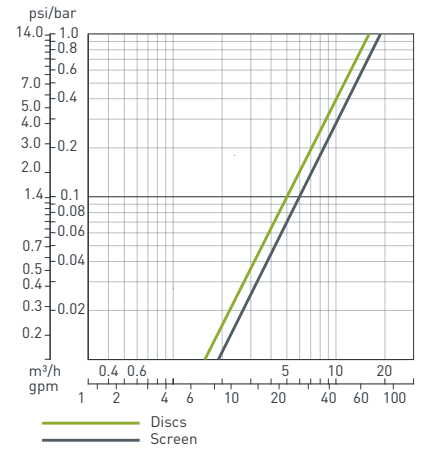


## 1" T-Super

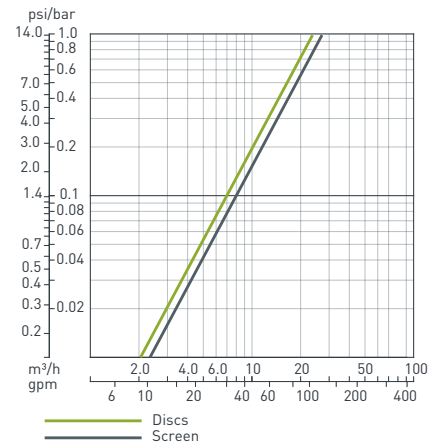
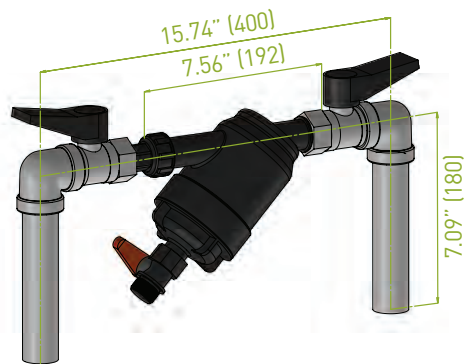
## Typical Installation Drawing



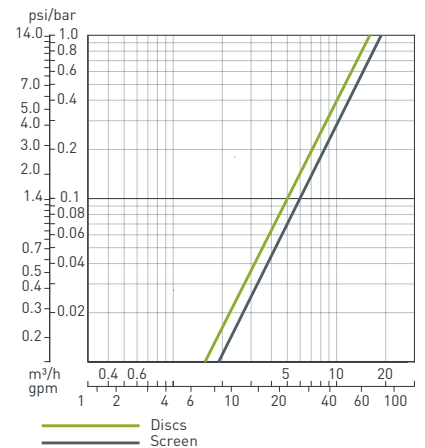
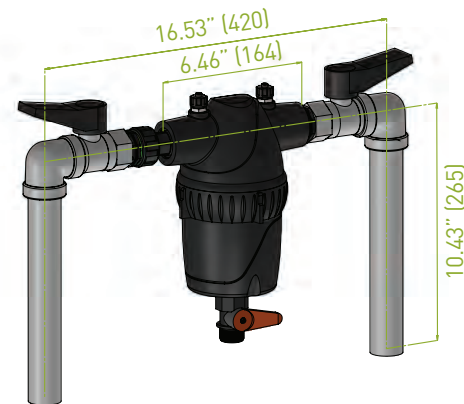
## Pressure Loss Graph in clean water



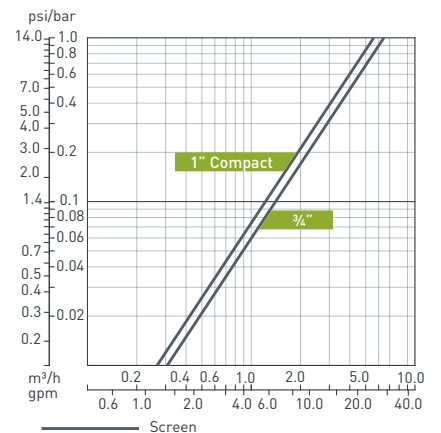
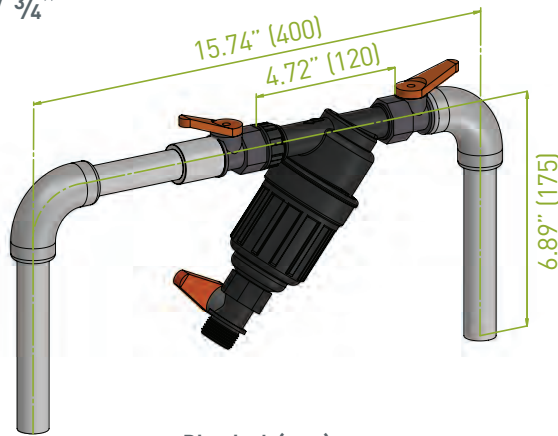
## 1" Super



## 1" T



## 1" Compact / 3/4"



## Technical Specifications

Filter Type		3" TDS	3" T	2" T-Super	2" T
General Data					
Maximum flow rate*		220 gpm (50 m³/h)	264 gpm (60 m³/h)	154 gpm (35 m³/h)	132 gpm (30 m³/h)
Inlet/outlet diameter		3" (80 mm)		2" (50 mm)	
Standard filtration degrees	Screen	200, 130, 100 micron	3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 80, 50 micron		
	Disc	200, 130, 100 micron			
Max. operating pressure		120 psi (8 bar)	150 psi (10 bar)		
Max. operating temperature		140°F (60°C)			
Weight [empty]	Screen	11.2 lbs (5.1 kg)	9.2 lbs (4.2 kg)		7.9 lbs (3.6 kg)
	Disc	14.0 lbs (6.3 kg)	11.9 lbs (5.4 kg)		9.7 lbs (4.4 kg)

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

Filter Type		1½" Super	1½" T-Super	1½" T	1½" Compact
<b>General Data</b>					
Maximum flow rate*		66 gpm (15 m³/h)			
Inlet/outlet diameter		1½" (40 mm)			
Standard filtration degrees	Screen	500, 300, 200, 130, 100, 80, 50 micron			
	Disc	200, 130, 100 micron			
Max. operating pressure		150 psi (10 bar)			
Working temperature range		140°F (60°C)			
Weight [empty]	Screen	2.2 lbs (1.0 kg)	2.7 lbs (1.35 kg)	1.9 lbs (0.85 kg)	1.7 lbs (0.76 kg)
	Disc	2.6 lbs (1.2 kg)	3.2 lbs (1.53 kg)	2.1 lbs (0.96 kg)	1.9 lbs (0.9 kg)

\* Consult amiad for optimum flow depending on filtration degree and water quality.

Filter Type		1" T-Super	1" Super	1" T	1" Compact	¾"
General Data						
Maximum flow rate*		31 gpm (7 m³/h)			26 gpm (6 m³/h)	18 gpm (4 m³/h)
Inlet/outlet diameter		1" (25 mm)				¾" (20 mm)
Standard filtration degrees	Screen	500, 300, 200, 130, 100, 80, 50 micron				
	Disc	200, 130, 100 micron			N/A	
Max. operating pressure		150 psi (10 bar)				
Working temperature range		140°F (60°C)				
Weight [empty]	Screen	2.7 lbs (1.2 kg)	1.2 lbs (0.55 kg)	2.1 lbs (0.96 kg)	0.7 lbs (0.30 kg)	0.6 lbs (0.28 kg)
	Disc	2 lbs (0.9 kg)	1.4 lbs (0.64 kg)	2.3 lbs (1.06 kg)	N/A	

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

## Engineering Data

Filter Type	3" TDS	3" T	2" T-Super	2" T
-------------	--------	------	------------	------

Filter Element Data				
Filtration area	Screen	243 in² (1,570 cm²)	186 in² (1,200 cm²)	124 in² (800 cm²)
	Discs	294 in² (1,900 cm²)		
Filter element type		Weavewire st.st. screen, disc element	Weavewire st.st. screen, perforated st.st. screen, disc element	

Construction Materials		
Filter housing	Polypropylene	Reinforced polyamide
Filter lid	Polypropylene	Reinforced polyamide
Tightening nut	N/A	Reinforced polyamide
Clamp	Reinforced polyamide	N/A
Housing seal	EPDM	NBR
Screen	Construction = polypropylene and st. st. 316 Seals = NBR	
Disc	Polypropylene	Construction = polypropylene Grooved discs = polypropylene seals = NBR

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

Filter Type	1½" Super	1½" T-Super	1½" T	1½" Compact
-------------	-----------	-------------	-------	-------------

Filter Element Data		
Filtration area	71 in <sup>2</sup> (460 cm <sup>2</sup> )	31 in <sup>2</sup> (200 cm <sup>2</sup> )
Filter element type	Polyester screen, weavewire st.st. screen, disc element	

Construction Materials		
Filter housing	Reinforced polypropylene	POM
Filter lid	Reinforced polypropylene	POM
Housing seal	NBR	
Screen	Structure = polypropylene Screen = st. st. or polyester Seals = viton or NBR	
Disc	Construction = polypropylene Grooved discs = polyethylene seals = NBR	

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

Filter Type	1" T-Super	1" Super	1" T	1" Compact	¾"
-------------	------------	----------	------	------------	----

Filter Element Data		
Filtration area	71.3 in <sup>2</sup> (460 cm <sup>2</sup> )	31 in <sup>2</sup> (200 cm <sup>2</sup> )
Filter element type	Polyester screen, weavewire st.st. screen, disc element	

Construction Materials		
Filter housing	Reinforced polypropylene	POM
Filter lid	Reinforced polypropylene	POM
Housing seal	NBR	
Screen	Structure = polypropylene Screen = st. st. or polyester Seals = NBR	
Disc	Construction = polypropylene Grooved discs = polyethylene seals = NBR	Polyester screen, weavewire stainless steel screen

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

## Headquarters

**Amiad Water Systems Ltd.**

Web: [www.amiad.com](http://www.amiad.com) | E-mail: [info@amiad.com](mailto:info@amiad.com)

## The Americas



### USA

**Amiad USA Inc.**

Web: [www.amiadusa.com](http://www.amiadusa.com) | E-mail: [infousa@amiad.com](mailto:infousa@amiad.com)

### Brazil

**Amiad Sistemas de Água Ltda.**

E-mail: [infobrasil@amiad.com](mailto:infobrasil@amiad.com)

### Mexico

**Amiad México SA DE CV,**

Web: [www.amiad.es](http://www.amiad.es) | E-mail: [infomexico@amiad.com](mailto:infomexico@amiad.com)

**Irrigation office:** E-mail: [infomexico-irr@amiad.com](mailto:infomexico-irr@amiad.com)

[ [ozglobatb2b.com](mailto:ozglobatb2b.com) ]

## Asia



### India

**Amiad Filtration India Pvt Limited**

Web: [www.amiadindia.com](http://www.amiadindia.com) | E-mail: [info-india@amiad.com](mailto:info-india@amiad.com)

### China

**Amiad China (Yixing Taixing Environtec Co., Ltd.)**

Web: [www.amiad.com.cn](http://www.amiad.com.cn) | E-mail: [marketing@taixing.cc](mailto:marketing@taixing.cc)

### South-East Asia

**Filtration & Control Systems Pte. Ltd.**

E-mail: [info-singapore@amiad.com](mailto:info-singapore@amiad.com)

## Australia



**Amiad Australia Pty Ltd.**

Web: [www.amiad.com.au](http://www.amiad.com.au) | E-mail: [sales@amiad.com](mailto:sales@amiad.com)

## Europe



**Amiad Water Systems Europe SAS**

E-mail: [info@amiad-europe.com](mailto:info@amiad-europe.com)

**German branch office**

E-mail: [info@amiad.de](mailto:info@amiad.de)

**United Kingdom**

**Amiad Water Systems UK Limited**

E-mail: [info-uk@amiad.com](mailto:info-uk@amiad.com)



[www.amiad.com](http://www.amiad.com)

910101-000469/04.2019

**Copyright © 2019 Amiad Water Systems Ltd. All rights reserved.** The contents of this catalogue including without limitation all information and materials, images, illustrations, designs, icons, photographs, graphical presentations, designs, literary works, data, drawings, slogans, phrases, names, trademarks, titles and any other such materials that appear in this catalogue (collectively, the "Contents") are the sole property of Amiad Water Systems Ltd. ("Amiad"). Amiad has sole and exclusive right, title and interest in the Contents, including any intellectual property rights, whether registered or not, and all know-how contained or embodied therein. You may not reproduce, publish, transmit, distribute, display, modify, create derivative works from, sell or participate in any sale of, or exploit in any way, in whole or in part, any of the Contents or the catalogue. Any use of the catalogue or the Contents, other than for personal use, requires the advanced written permission of Amiad.