

# Plastic Filters

Durable high quality Plastic Filters for wide range of filtration applications



flowrates

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

filtration degrees

**3500-50  
micron**

diameters

**3/4" - 3"**

max. operating  
pressure

**10 bar (150 psi)  
Tagline: 8 bar (120 psi)**

## features:

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

## Amiad Plastic Filters

### General

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

Amiad plastic filters need no tools for dismantling or removing the filter element from the filter housing for rinsing; Visual monitoring the status of the filter element without disrupting the water flow is easily done with Amiad's innovative clogging indicator connected to the filter's pressure check points.

Amiad plastic filters can be upgraded to semi-automatic operation by adding one of Amiad's exclusive Brushaway or Scanaway assemblies.

### 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 20 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.



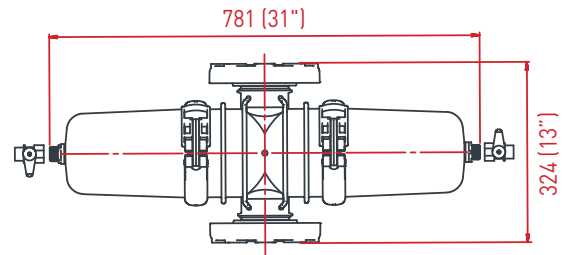
### Filtration Degrees Available

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

Disc color	-	-	Black	Red	Yellow	-	Blue	-	-	-	-
Screen color	Orange	Black	-	Red	-	Blue	-	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, 1" T S, 1½" C, 1½" S	▲	▲	■▲●	■▲●	▲●	■▲	▲				
2", 3"	▲	▲	▲●	▲●	▲●	▲	▲★	★	★	★	★
3" TDS			▲●	▲●	▲●						

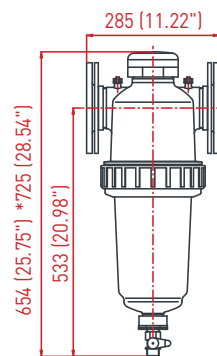
■ Polyester    ▲ WeaveWire Screen    ● Disc Element    ★ Perforated Screen

### 3" TDS



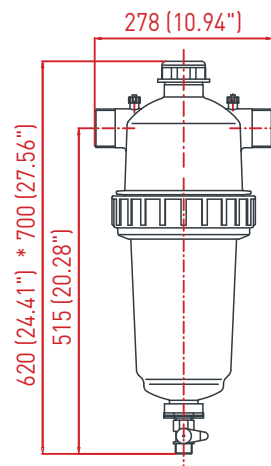
\* Flanged connections also available

### 3" T

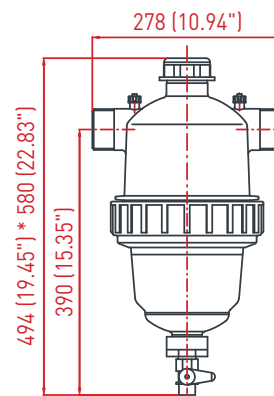


\* Threaded connections also available

### 2" T-Super



### 2" T

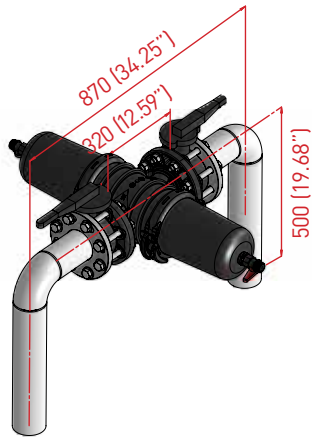


Dim: mm (inch)

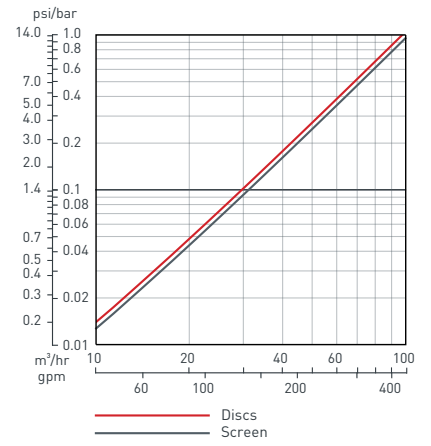
\*Approx. length required for maintenance

### 3" TDS

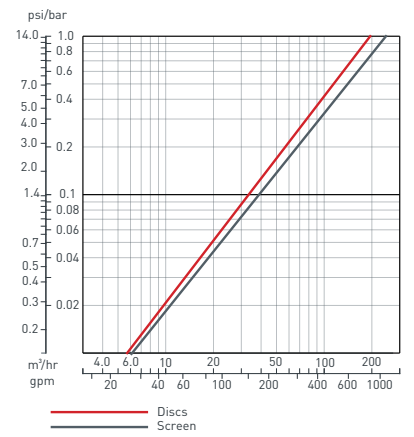
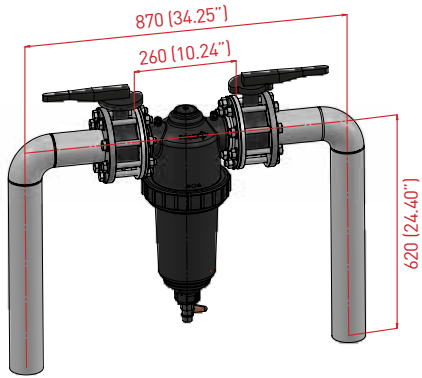
### Typical Installation Drawing



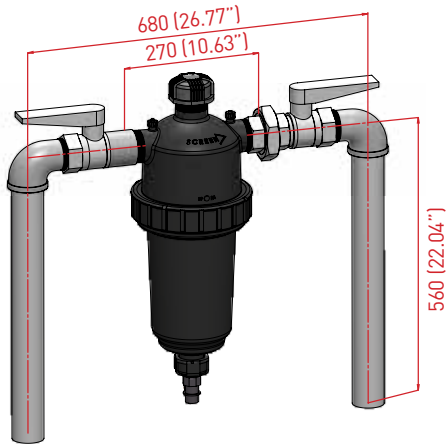
### Pressure Loss Graph in clean water



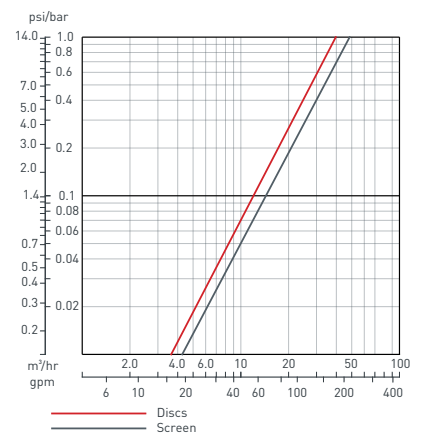
### 3" T



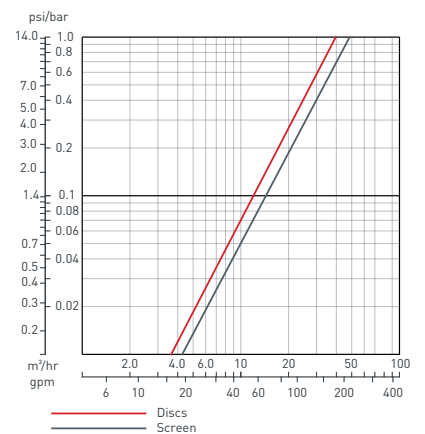
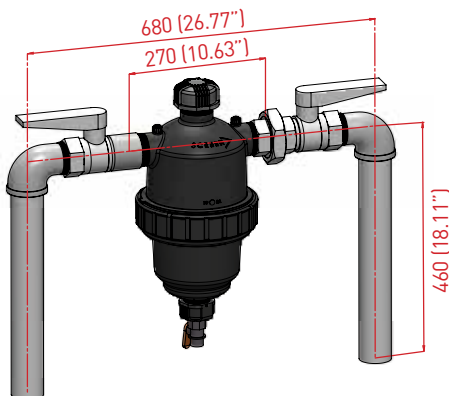
### 2" T-Super



### 2" T-Super

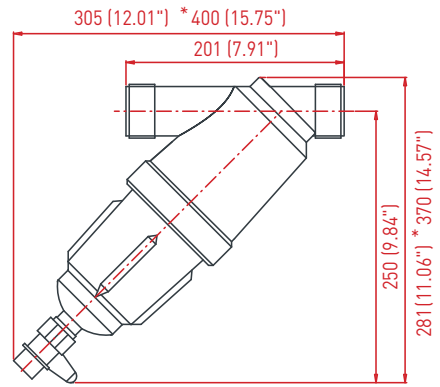


### 2" T

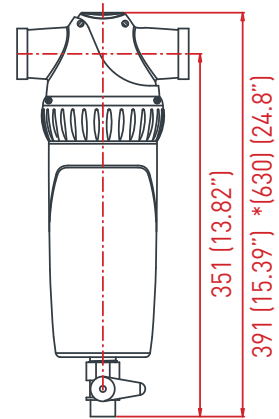


Dim: mm (inch)

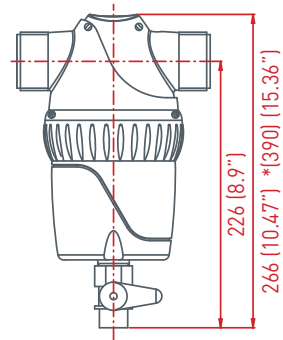
1½" Super



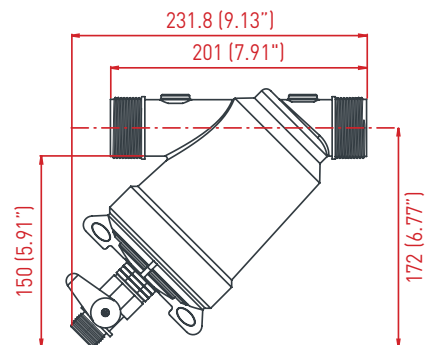
1½" T-Super



1½" T



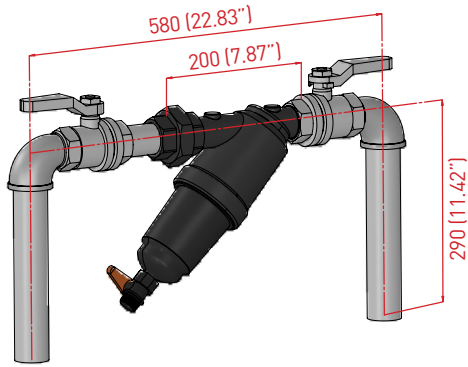
1½" Compact



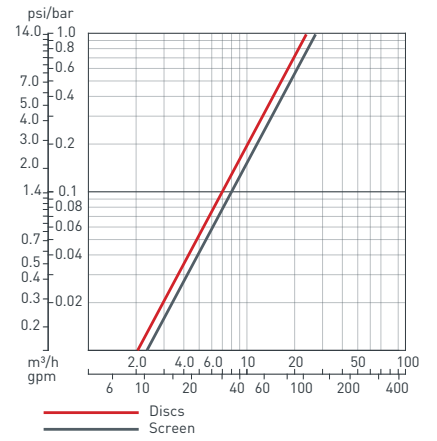
Dim: mm (inch)

\*Approx. length required for maintenance

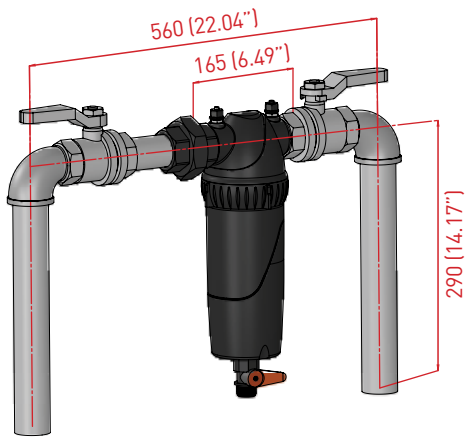
### 1½" Super Typical Installation Drawing



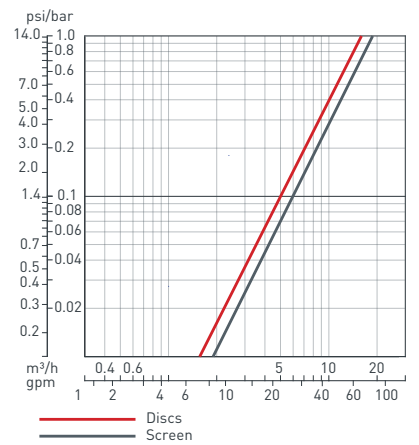
### Pressure Loss Graph in clean water



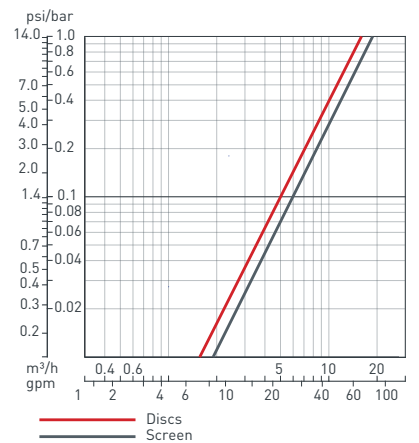
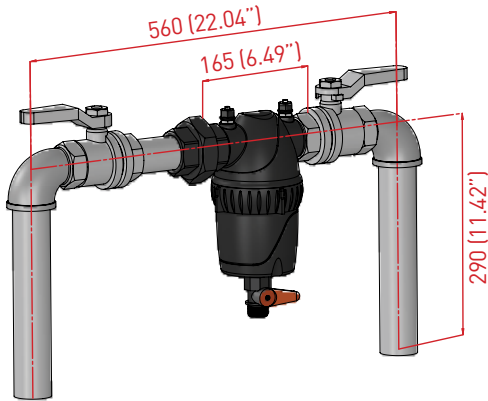
### 1½" T-Super



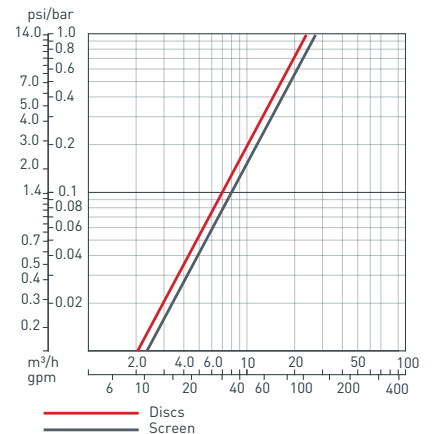
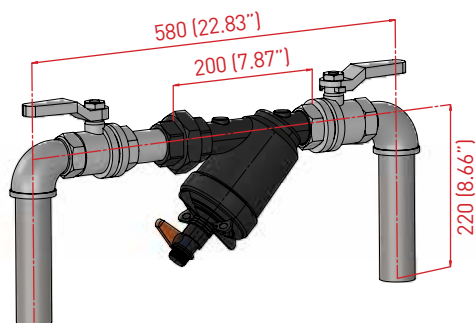
### 1½" T-Super



### 1½" T

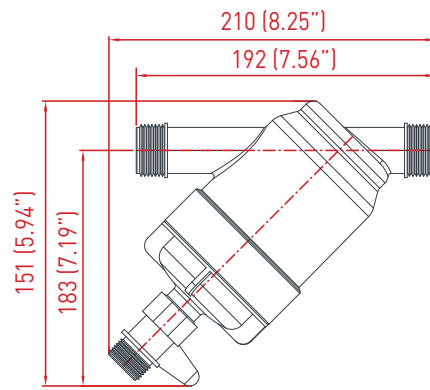


### 1½" Compact

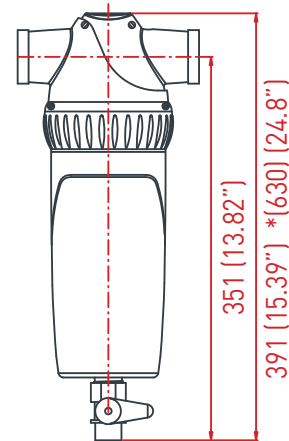


Dim: mm (inch)

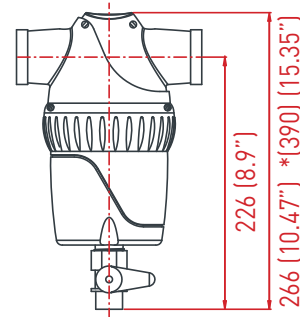
## 1" Super



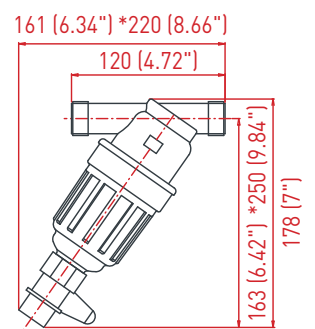
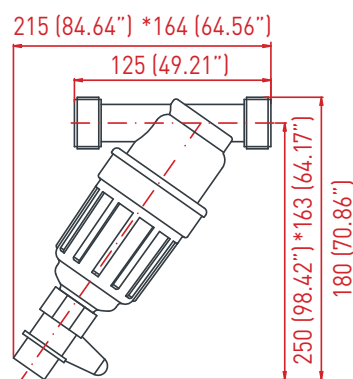
## 1" T-Super



## 1" T



## 1" Compact / 3/4"



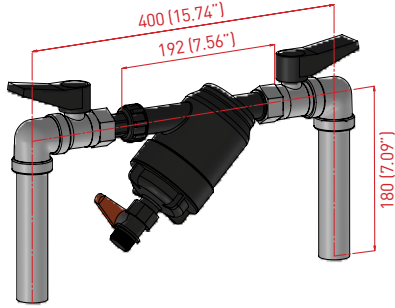
Dim: mm (inch)

\*Approx. length required for maintenance

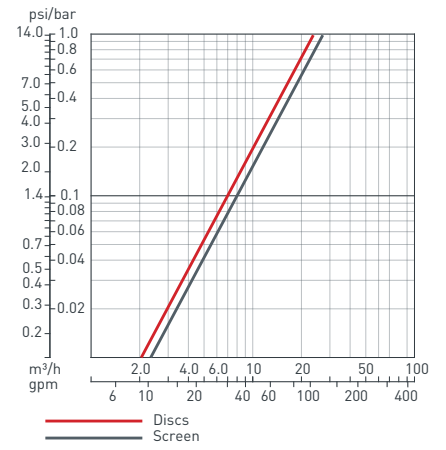


### 1" Super

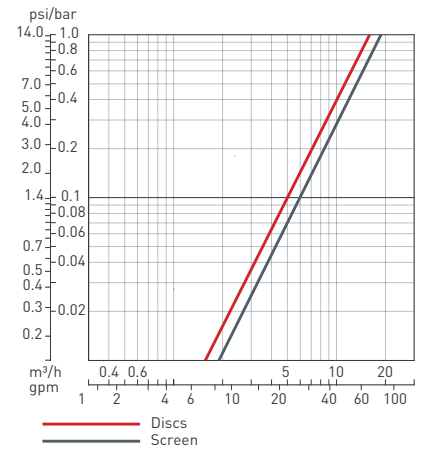
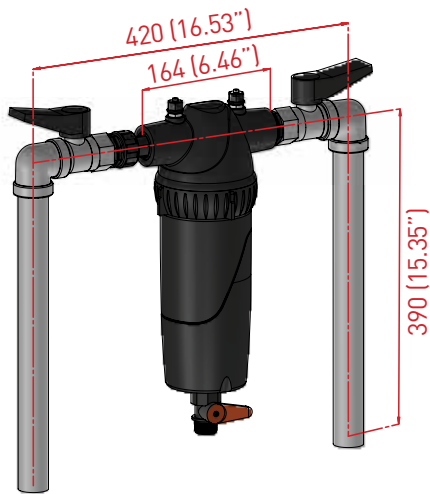
### Typical Installation Drawing



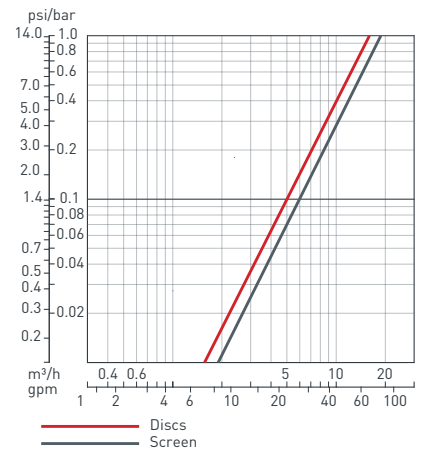
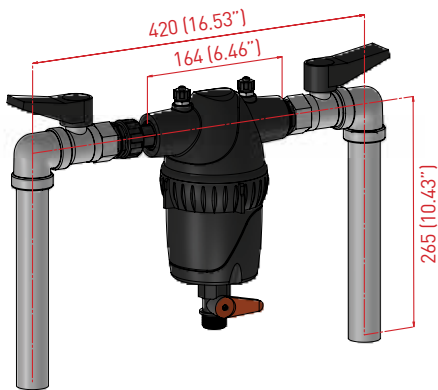
### Pressure Loss Graph in clean water



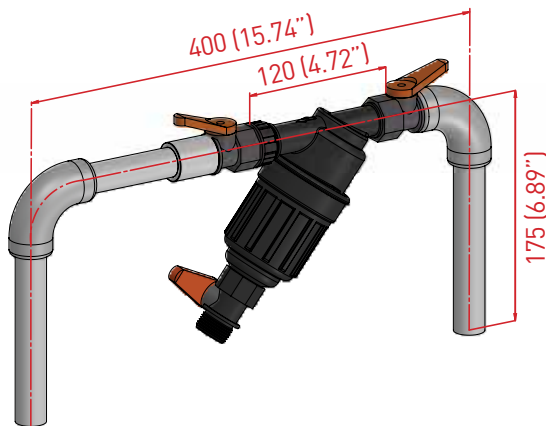
### 1" T-Super



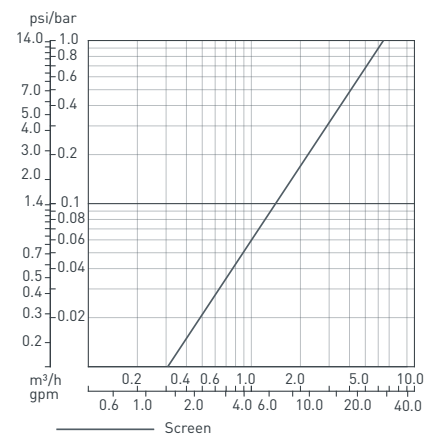
### 1" T



### 1" Compact / 3/4"



Dim: mm (inch)



## Technical Specifications

Filter Type		3" TDS	3" T	2" T-Super	2" T
<b>General Data</b>					
Maximum flow rate*		70 m <sup>3</sup> /h (176 gpm)	60 m <sup>3</sup> /h (220 gpm)	35 m <sup>3</sup> /h (110 gpm)	30 m <sup>3</sup> /h (110 gpm)
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		
	Discs	200, 130, 100 micron			
Max. working pressure		8 bar (120 psi)	10 bar (150 psi)		
Max. working temperature		60°C (140°F)			
Weight [empty]	Screen	5.1 kg (11.2 lbs)	4.2 kg (9.2 lb)		3.6 kg (7.9 lb)
	Discs	6.3 kg (14.0 lbs)	5.4 kg (11.9 lb)		4.4 kg (9.7 lb)

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

Filter Type		1½" Super	1½" T Super	1½" T	1½" Compact
<b>General Data</b>					
Maximum flowrate*		15 m <sup>3</sup> /h (66 gpm)			
Inlet/outlet diameter		1½" (40 mm)			
Standard filtration degrees	Screen	500, 300, 200, 130, 100, 80, 50 micron			
	Discs	200, 130, 100 micron			
Max. working pressure		10 bar (150 psi)			
Working temperature range		60°C (140°F)			
Weight [empty]	Screen	1.0 kg (2.2 lb)	1.244 kg (2.73 lb)	0.855 kg (1.9 lb)	0.76 kg (1.67 lb)
	Discs	1.2 kg (2.64 lb)	1.442 kg (3.2 lb)	0.960 kg (2.1 lb)	0.86 kg (1.89 lb)

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

Filter Type		1" Super	1" T-Super	1" T	1" Compact	¾"	
<b>General Data</b>							
Maximum flowrate*		7 m <sup>3</sup> /h (25.5 gpm)		6 m <sup>3</sup> /h (22 gpm)	4 m <sup>3</sup> /h (13.2 gpm)		
Inlet/outlet diameter		1" (25 mm)				¾" (20 mm)	
Standard filtration degrees	Screen	500, 300, 200, 130, 100, 80, 50 micron					
	Discs	200, 130, 100 micron				-	
Max. working pressure		10 bar (150 psi)					
Working temperature range		60°C (140°F)					
Weight [empty]	Screen		0.921 kg (2.030 lb)	0.917 kg (2.0 lb)	0.30 kg (0.66 lb)	0.28 kg (0.61 lb)	
	Discs		1.244 kg (2.742 lb)	0.921 kg (2 lb)			

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

## Engineering Data

Filter Type	3" TDS	3" T	2" T-Super	2" T
<b>Filter Element Data</b>				
Filtration area	1,700 cm <sup>2</sup> (263.5 in <sup>2</sup> )	1,200 cm <sup>2</sup> (186 in <sup>2</sup> )		800 cm <sup>2</sup> (124 in <sup>2</sup> )
Filter element type	Weavewire st.st. Screen, Disc Element			

### Construction Materials

Filter housing	Polypropylene	Polyamide + Glass Fibers		
Filter lid clamp	Reinforced Polyamide	Polyamide + Glass Fibers		
Tightening nut	Polyamide + Glass Fibers			
Clamp	EPDM	N/A		
Housing seal	NBR			
Screen	Construction = Polypropylene Glass Fibers. Screen = St. St. Seals = NBR			
Disc	Polypropylene	Construction = Polypropylene Grooved discs = polyethylene Seals = NBR		

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

Filter Type	1½" Super	1½" T Super	1½" T	1½" Compact
<b>Filter Element Data</b>				
Filtration area	460 cm <sup>2</sup> (71.3 in <sup>2</sup> )	460 cm <sup>2</sup> (71.3 in <sup>2</sup> )	200 cm <sup>2</sup> (31 in <sup>2</sup> )	200 cm <sup>2</sup> (31 in <sup>2</sup> )
Filter element type	Polyester Screen, Weavewire st.st. Screen, Perforated st.st. Screen, Disc Element			

### Construction Materials

Filter housing	Polyacetal			
Filter lid	Polyacetal			
Housing seal	NBR			
Screen	Structure = Polypropylene Screen = St. St. or Polyester Seals = Viton or NBR			

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

Filter Type	1" Super	1" T-Super	1" T	1" Compact	¾"
<b>Filter Element Data</b>					
Filtration area	200 cm <sup>2</sup> (31 in <sup>2</sup> )	460 cm <sup>2</sup> (71.3 in <sup>2</sup> )	200 cm <sup>2</sup> (31 in <sup>2</sup> )	200 cm <sup>2</sup> (31 in <sup>2</sup> )	140 cm <sup>2</sup> (21.7 in <sup>2</sup> )
Filter element type	Polyester Screen, Weavewire st.st. Screen, Disc Element				

### Construction Materials

Filter housing	Polypropylene			Polyacetal	
Filter lid	Polypropylene			Polyacetal	
Housing seal	NBR				
Screen	Structure = Polypropylene Screen = St. St. or Polyester Seals = NBR			Structure = Polypropylene Screen = St. St. or Polyester Seals = NBR	

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