amiad®
WATER SYSTEMS

AMIAD

# Plastic Filters

## Durable high quality Plastic Filters for wide range of filtration applications

| flow rates | filtration degrees | diameters | max. operating pressure |
|---|---|---|---|
| up to 50 m³/h<br>220 gpm | 3500-50 micron | 20-80 mm<br>¾" - 3" | 10 bar<br>150 psi |

### features:

- Interchangeable filter elements for a wide range of flow rates, with multiple filtration degrees
- Excellent mechanical strength, corrosion/chemical resistant*
- 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

* Chemical resistance depends on the type of chemical and the working conditions. For any specific need for chemical resistance, please consult with Amiad.

# 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)

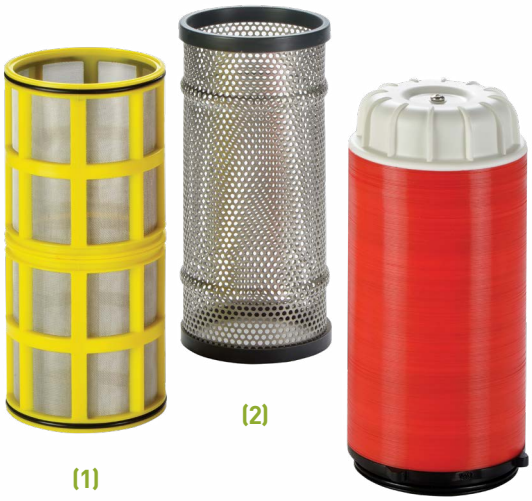
Screen elements are constructed of molded plastic ribs that support a stainless steel weavewire or weaved polyester screen for filtration degrees of 500 to 50 micron.

### 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.



(1) (2) (3)

## 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.**

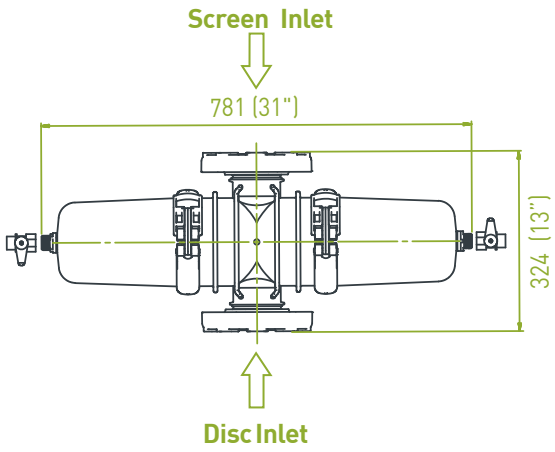
| Disc color | - | - | Black | Red | Yellow | - | - | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Screen color | Orange | Black | Yellow | Red | White | Blue | Green | Gray | - | - | - |
| Micron | 50 | 80 | 100 | 130 | 200 | 300 | 500 | 800 | 1500 | 2500 | 3500 |
| Mesh | 300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

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

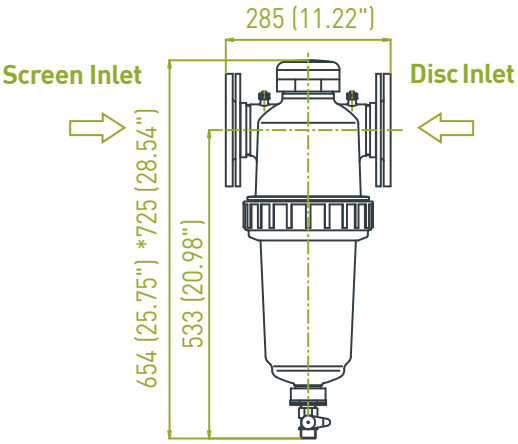
## 3" TDS

* Threaded connections also available

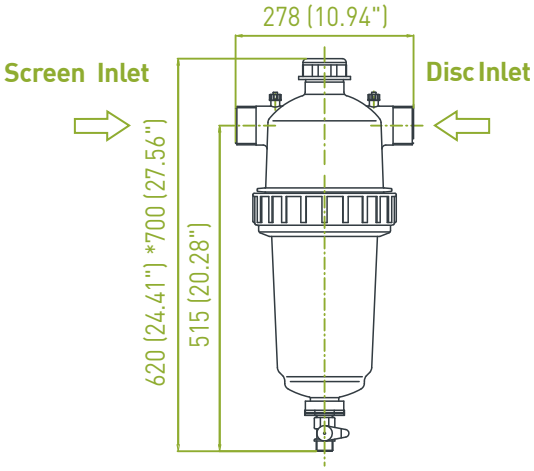
### Dimentional Drawing



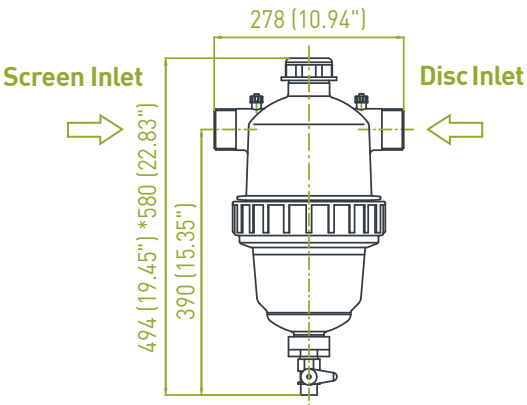

## 3" T




## 2" T-Super



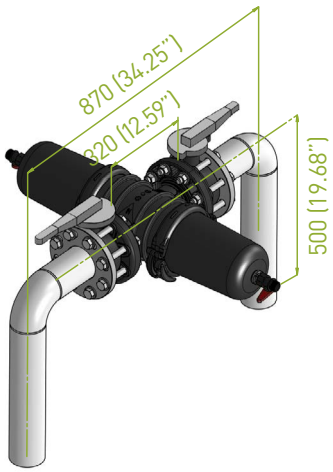

## 2" T



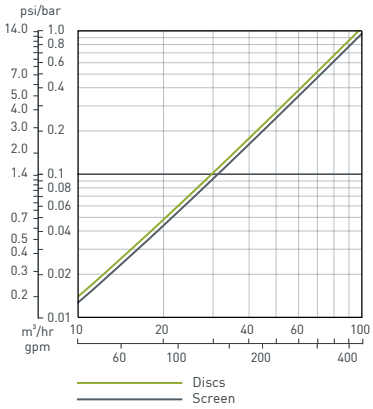

Dim: mm (inch)
*Approx. length required for maintenance

## 3" TDS

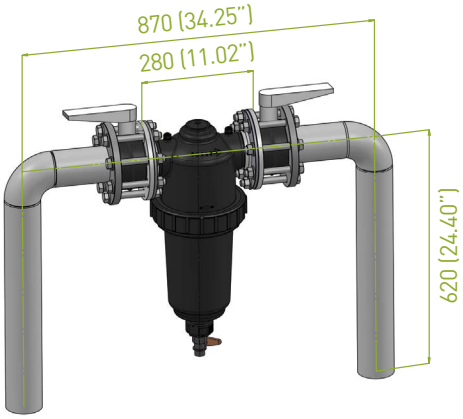
### Typical Installation Drawing

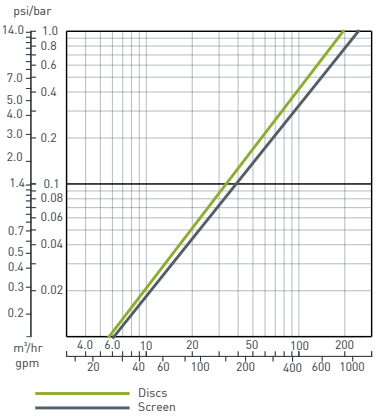



### Pressure Loss Graph
in clean water

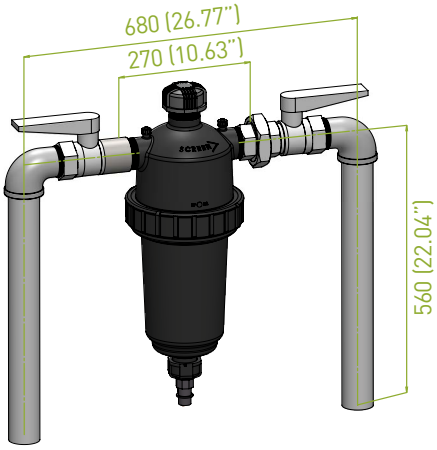


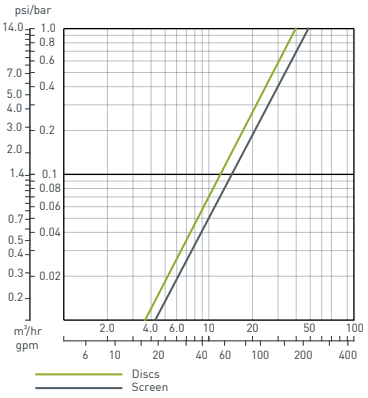

## 3" T



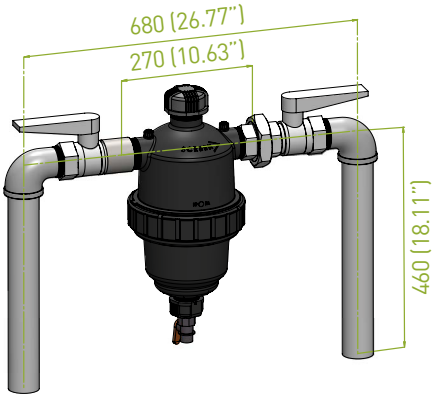



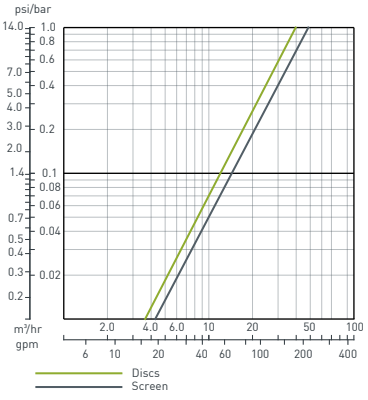

## 2" T-Super




## 2" T

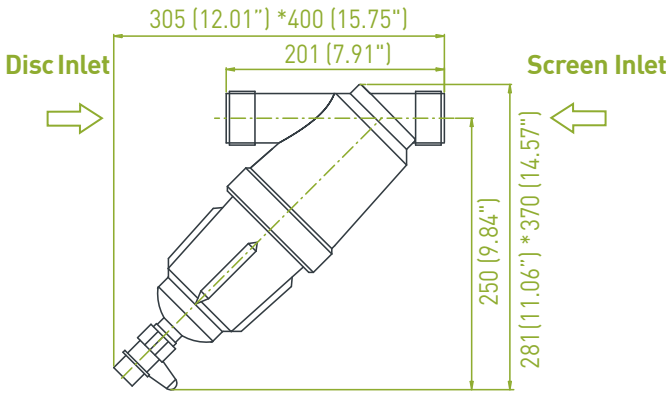


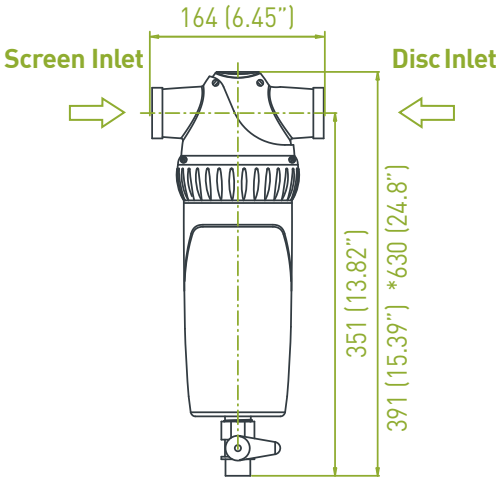

Dim: mm (inch)

## 1½" Super

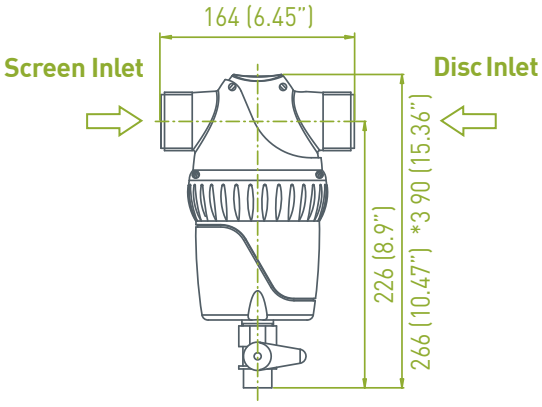
### Dimentional Drawing



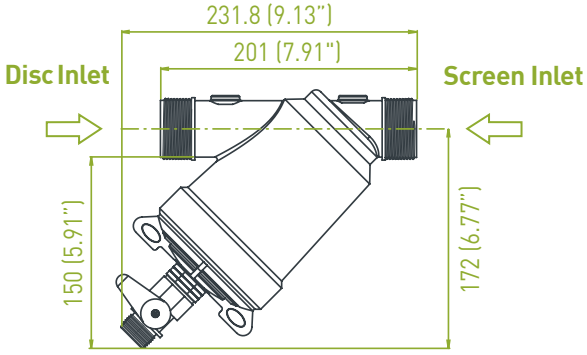

## 1½" T-Super




## 1½" T



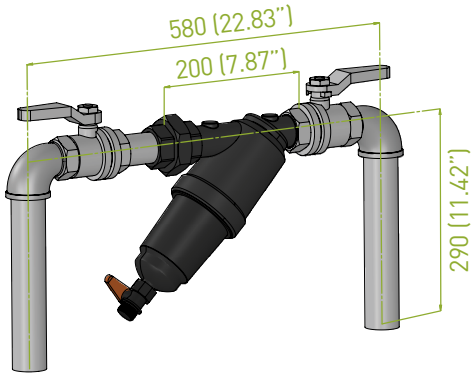

## 1½" Compact



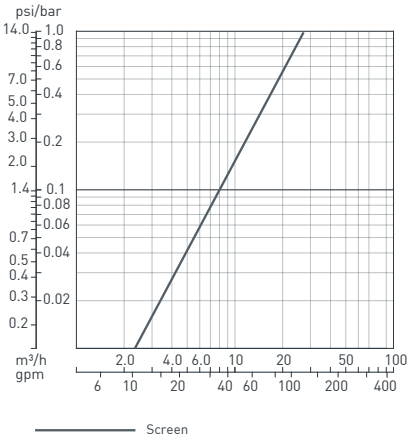

Dim: mm (inch)
*Approx. length required for maintenance

## 1½" Super

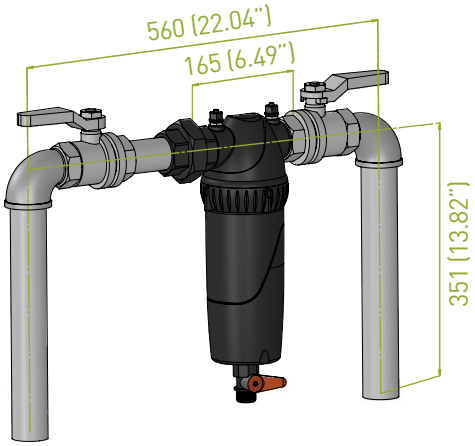
### Typical Installation Drawing

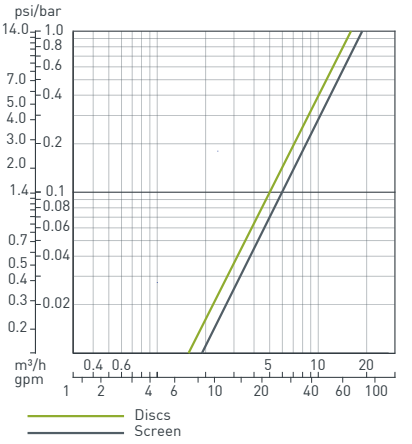



### Pressure Loss Graph
in clean water

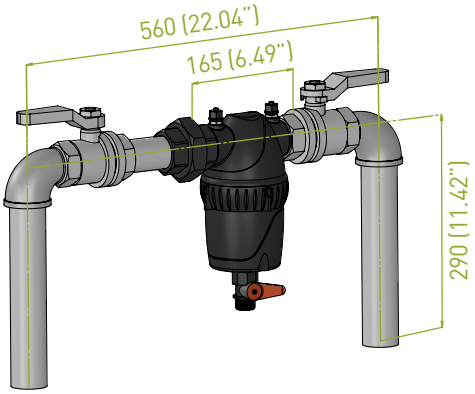


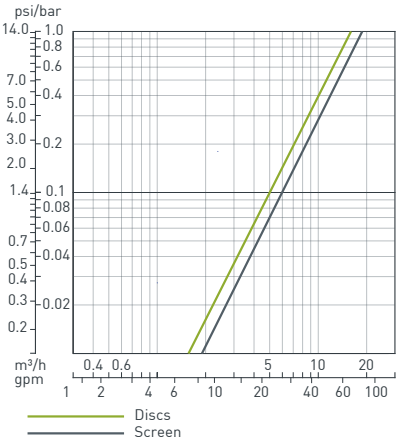

## 1½" T-Super



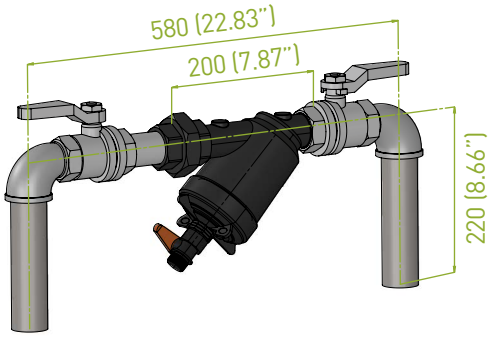



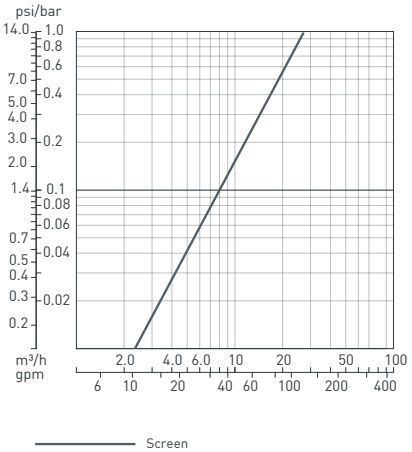

## 1½" T




## 1½" Compact

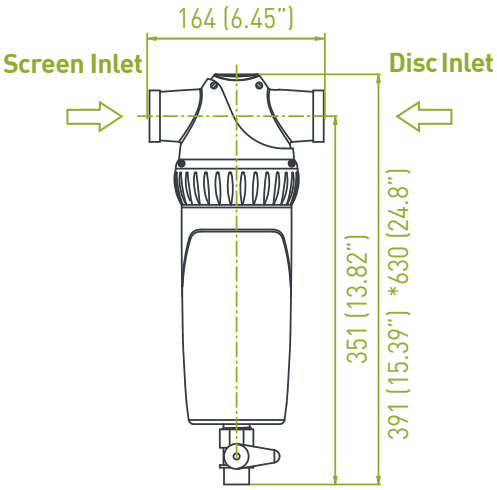


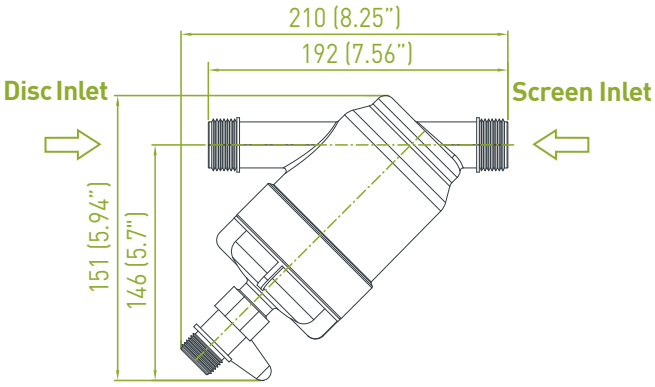

**Dim: mm (inch)**

## 1” T-Super

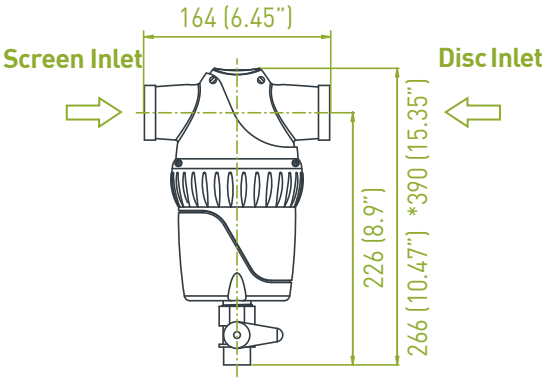
### Dimentional Drawing



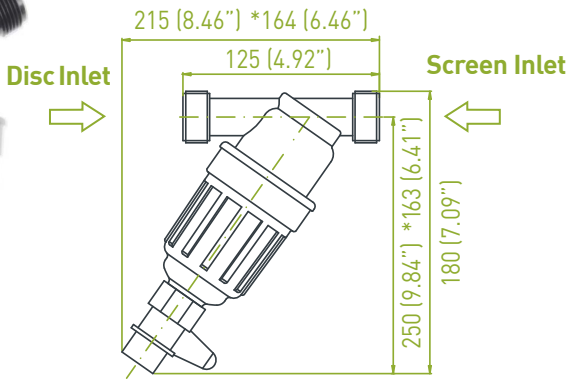

## 1” Super



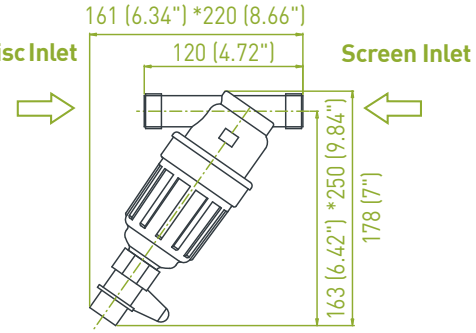

## 1” T




## 1” Compact




## ¾”

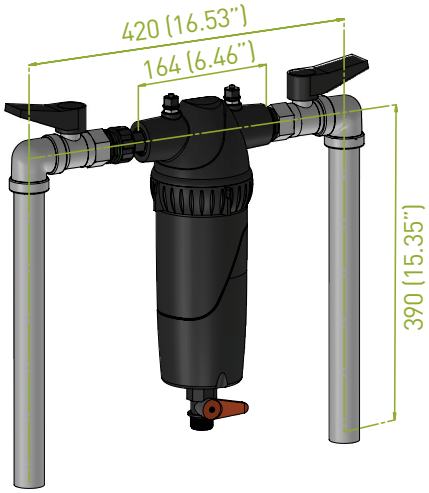



Dim: mm (inch)

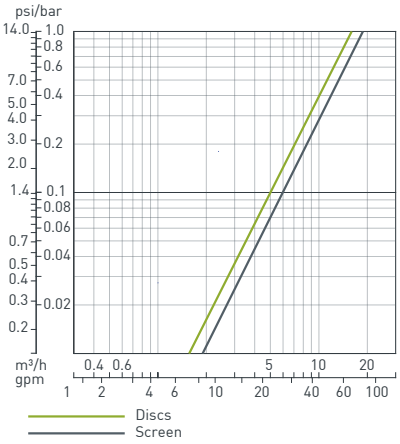
*Approx. length required for maintenance

## 1” T-Super

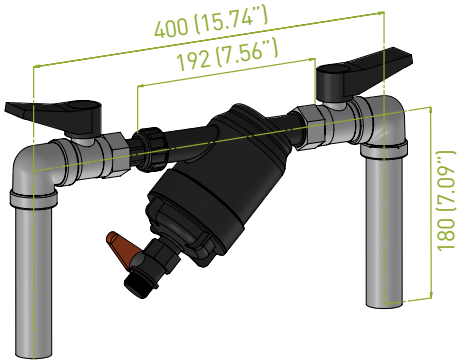
### Typical Installation Drawing

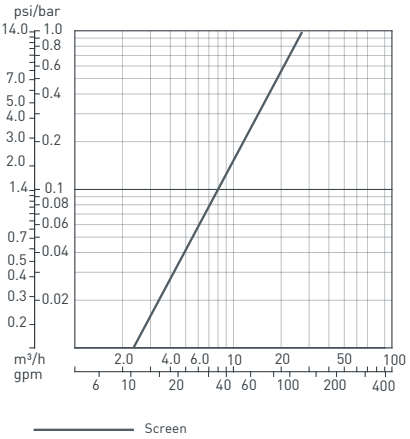



### Pressure Loss Graph
in clean water

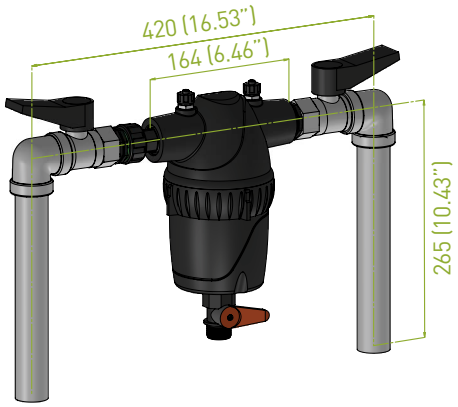


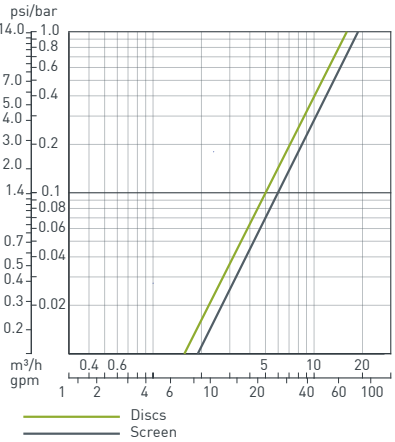

## 1” Super



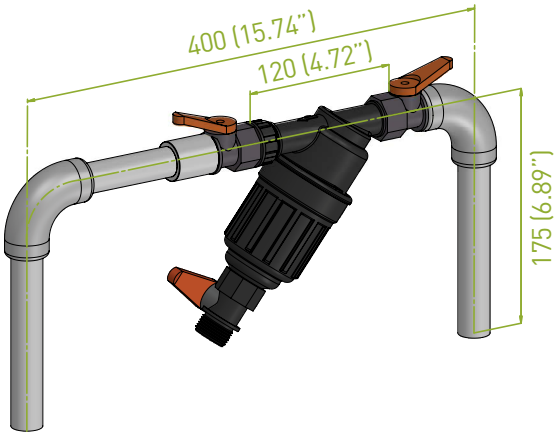



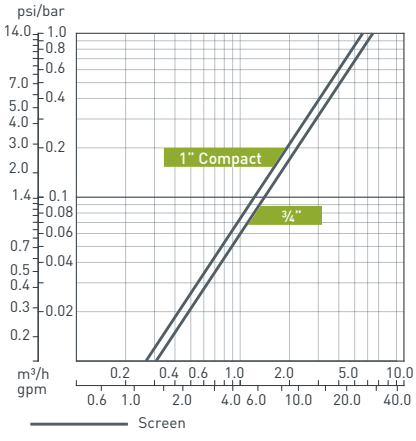

## 1” T




## 1” Compact / ¾”




**Dim: mm (inch)**

## Technical Specifications

| Filter Type | | 3" TDS | 3" T /3"TL | 2" T-Super | 2" T |
|---|---|---|---|---|---|
| General Data | | | | | |
| Maximum flow rate* | | 50 $m^3$/h (220 gpm) | 60 $m^3$/h (264 gpm) | 35 $m^3$/h (154 gpm) | 30 $m^3$/h (132 gpm) |
| Inlet/outlet diameter | | 80 mm (3") | | 50 mm (2") | |
| 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 | | 8 bar (120 psi) | 10 bar (150 psi) | | |
| Max. operating temperature | | 60°C (140°F) | | | |
| Weight [empty] | Screen | 5.1 kg (11.2 lbs) | 4.2 kg (9.2 lbs) | | 3.6 kg (7.9 lbs) |
| | Disc | 6.3 kg (14.0 lbs) | 5.4 kg (11.9 lbs) | | 4.4 kg (9.7 lbs) |

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

| Filter Type T | | 1½" T-Super | 1½" T | 1" T-Super | 1" T |
|---|---|---|---|---|---|
| General Data | | | | | |
| Maximum flow rate* | | 15 $m^3$/h (66 gpm) | | 7 $m^3$/h (31 gpm) | |
| Inlet/outlet diameter | | 40 mm (1½") | | 25 mm (1") | |
| Standard filtration degrees | | 500, 300, 200, 130, 100, 80, 50 micron | | | |
| Max. operating pressure | | 10 bar (150 psi) | | | |
| Working temperature range | | 60°C (140°F) | | | |
| Weight [empty] | Screen | 1.35 kg (2.7 lbs) | 0.85 kg (1.9 lbs) | 1.2 kg (2.7 lbs) | 0.96 kg (2.1 lbs) |
| | Disc | 1.53 kg (3.2 lbs) | 0.96 kg (2.1 lbs) | 0.9 kg (2 lbs) | 1.06 kg (2.3 lbs) |

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

| Filter Type T | 1½" Super | 1½" Compact | 1" Super | 1" Compact | ¾" |
|---|---|---|---|---|---|
| General Data | | | | | |
| Maximum flow rate* | 15 $m^3$/h (66 gpm) | | 7 $m^3$/h (31 gpm) | 6 $m^3$/h (26 gpm) | 4 $m^3$/h (18 gpm) |
| Inlet/outlet diameter | 40 mm (1½") | | 25 mm (1") | | 20 mm (¾") |
| Standard filtration degrees | 500, 300, 200, 130, 100, 80, 50 micron | | | | |
| Max. operating pressure | 10 bar (150 psi) | | | | |
| Working temperature range | 60°C (140°F) | | | | |
| Weight [empty] | 1.0 kg (2.2 lbs) | 0.76 kg (1.7 lbs) | 0.55 kg (1.2 lbs) | 0.30 kg (0.7 lbs) | 0.28 kg (0.6 lbs) |

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

## Engineering Data

| Filter Type | 3" TDS | 3" T | 2" T-Super | 2" T |
|---|---|---|---|---|
| **Filter Element Data** | | | | |
| Filtration area | Screen: 1,570 cm² (243 in²)<br>Disc: 1,900 cm² (294 in²) | 1,200 cm² (186 in²) | | 800 cm² (124 in²) |
| 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<br>Seals = NBR | | | |
| Disc | Polypropylene | Construction = polypropylene<br>Grooved discs = polypropylene seals = NBR | | |

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

| Filter Type T | 1½" T-Super | 1½" T | 1" T-Super | 1" T |
|---|---|---|---|---|
| **Filter Element Data** | | | | |
| Filtration area | 460 cm² (71 in²) | | 200 cm² (31 in²) | |
| Filter element type | Polyester screen, weavewire st.st. screen, disc element | | | |
| **Construction Materials** | | | | |
| Filter housing | Reinforced polyproylene | | | |
| Filter lid | Reinforced polyproylene | | | |
| Housing seal | NBR | | | |
| Screen | Structure = polypropylene, Screen = st. st. or polyester, Seals = NBR | | | |
| Disc | Construction = polypropylene grooved, Discs = polyethylene, Seals = NBR | | | |

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

| Filter Type | 1½" Super | 1½" Compact | 1" Super | 1" Compact | ¾" |
|---|---|---|---|---|---|
| **Filter Element Data** | | | | | |
| Filtration area | 460 cm² (71 in²) | 200 cm² (31 in²) | | 140 cm² (22 in²) | |
| Filter element type | Polyester screen, weavewire st.st. screen | | | | |
| **Construction Materials** | | | | | |
| Filter housing | Reinforced polyproylene | POM | Reinforced polyproylene | POM | |
| Filter lid | Reinforced polyproylene | POM | Reinforced polyproylene | POM | |
| Housing seal | NBR | | | | |
| Screen | Structure = polypropylene, Screen = st. st. or polyester, Seals = NBR | | | | |

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

## Headquarters

Amiad Water Systems Ltd.
Web: www.amiad.com | E-mail: info@amiad.com

## The Americas

USA
Amiad USA Inc.
Web: www.amiadusa.com | E-mail: infousa@amiad.com

Mexico
Amiad México SA DE CV,
Web: www.amiad.es | E-mail: infomexico@amiad.com
Irrigation office: E-mail: infomexico-irr@amiad.com

## Asia

India
Amiad Filtration India Pvt Limited
Web: www.amiadindia.com | E-mail: info-india@amiad.com

China
Amiad China (Yixing Taixing Environtec Co., Ltd.)
Web: www.amiad.com.cn | E-mail: infochina@amiad.com

South-East Asia
Filtration & Control Systems Pte. Ltd.
E-mail: info-singapore@amiad.com

## Australia

Amiad Australia Pty Ltd.
Web: www.amiad.com.au | E-mail: sales@amiad.com

## Europe

Amiad Water Systems Europe SAS
E-mail: industry-europe@amiad.com

German branch office
E-mail: industry-de@amiad.com

United Kingdom
Amiad Water Systems UK Limited
E-mail: info-uk@amiad.com

amiad® WATER SYSTEMS ARKAL FILTOMAT AMIAD

www.amiad.com

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