

Steel Filters

Durable high quality Steel Filters for wide range of filtration applications



flowrates

**up to 4400 US gpm
(1000 m³/h)**

filtration degrees

3500-50 micron

diameters

2" - 12"

maximum operating
pressure

150 psi (10 bar)

features:

- Interchangeable filter elements for wide range of flowrates, filtration degrees and applications
- High quality polyester coating as well as stainless steel housings for chemical durability and corrosion resistance
- Low pressure loss
- Easy to install and maintain, no tools required for rinsing
- Available with exclusive features for semi-automatic cleaning
- Innovative add-on clogging indicator

Amiad Steel Filters

General

With their various filter elements, Amiad's all purpose steel filters are made for wide range of filtering applications and filtration degrees and are easy to install and maintain. They are made of carbon steel with high quality polyester coating. Stainless steel housings are also available.

Amiad steel filters need no tools for dismantling or extracting 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 steel filters can be upgraded to semi-automatic operation by adding one of Amiad's exclusive Turboclean, Brushaway or Scanaway assemblies.

Filter Elements

Amiad supplies various filter elements for its steel filters in order to cover a wide range of flowrates, multiple filtration degrees and applications.

Stainless steel Screen elements: [1]

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

Perforated stainless steel elements: [2]

Suitable for coarse filtration (straining) between 800 and 3,500 micron. The direction of flow in these screen elements is from the inside out along the element, therefore the suspended solids accumulate on the inside surface of the screen while the O-rings incorporated into the cylinder ends provide perfect sealing of the element inside the filter housing.

This arrangement allows for:

- Easy removal of the screen element from the filter housing for rinsing
- The accumulation of inorganic suspended solids at the end of the element to be easily removed by means of a flush valve
- Effective separation of inorganic particles
- Very low pressure loss



Disc Elements: {3}

The disc elements are designed 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 with the grooves intersecting to form the filtration element when compressed. 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 a perfect seal without removing the element from the filter housing.

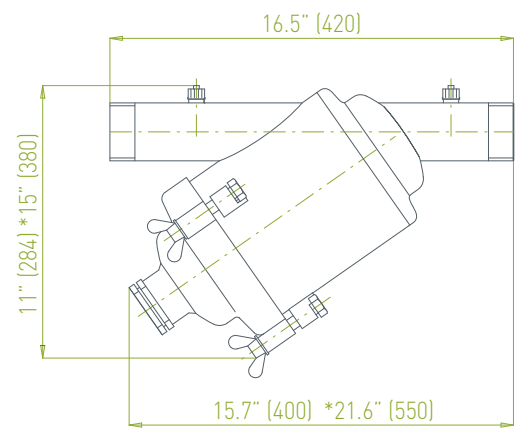
Filtration Degrees Available

The following table lists the various filter elements of Amiad's Steel Filter line 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.

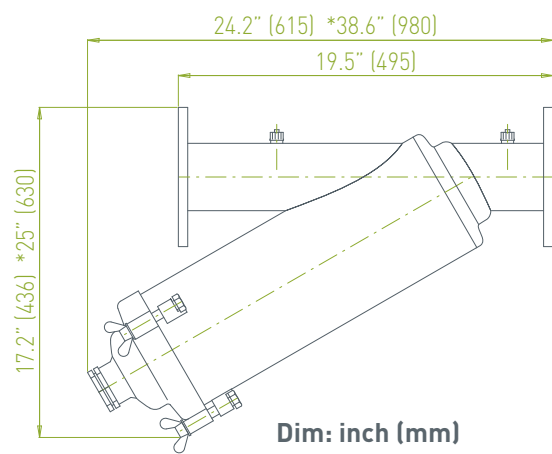
| Color | Orange | Black | Yellow | Red | Purple | White | Brown | Blue | Green | Gray | | | |
|------------|--------|-------|--------|-----|--------|-------|-------|------|-------|------|------|------|------|
| Micron | 50 | 80 | 100 | 130 | 180 | 200 | 250 | 300 | 500 | 800 | 1500 | 2500 | 3500 |
| Mesh | 300 | 200 | 155 | 120 | 80 | 75 | 60 | 50 | 30 | 20 | 10 | 6 | 4 |
| 2", 3", 4" | ▲ | ▲ | ▲● | ▲● | ● | ▲ | ● | ▲ | ▲ | ★ | ★ | ★ | ★ |
| 4"S - 12" | ▲ | ▲ | ▲ | ▲ | | ▲ | | ▲ | ▲ | ★ | ★ | ★ | ★ |

▲ Weave Wire Screen ● Disc Element ★ Perforated Screen

2" In-Line



3" In-Line



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

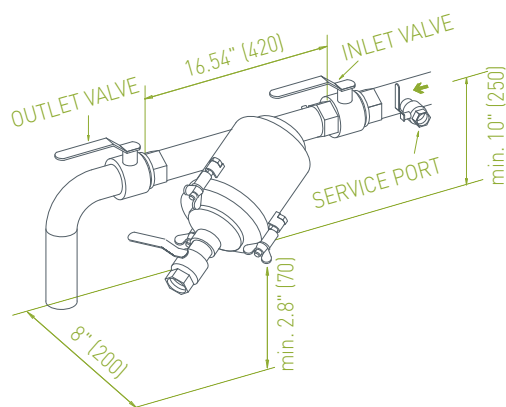
Technical Specifications

| Filter Type | 2" In-Line | 3" In-Line |
|--|--|---|
| General Data | | |
| Maximum flowrate* | 110 US gpm (25 m³/h) | 220 US gpm (50 m³/h) |
| Inlet/outlet diameter flanges and threads | 2" (50 mm) | 3" (80 mm) |
| Standard filtration degrees | 3500, 2500, 1500, 800, 500, 300, 250, 200, 130, 100, 80, 50 micron | |
| Max. working pressure | 10 bar (150 psi) | |
| Max. working temperature | 60°C (140°F) | |
| Weight [empty] threads | Screen = 16 lb (7.3 kg) Discs = 17.8 lb (8.1 kg) | Screen = 30 lb (13.6 kg) Discs = 33.5 lb (15.2 kg) |
| Weight [empty] flanges | Screen = 23 lb (10.5 kg) Discs = 25 lb (11.3 kg) | Screen = 36.6 lb (16.6 kg) Discs = 40.1 lb (18.2 kg) |

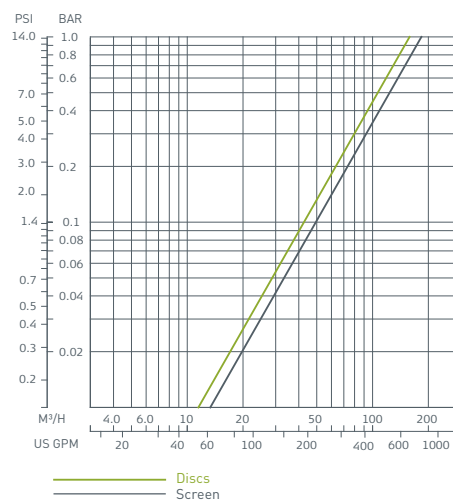
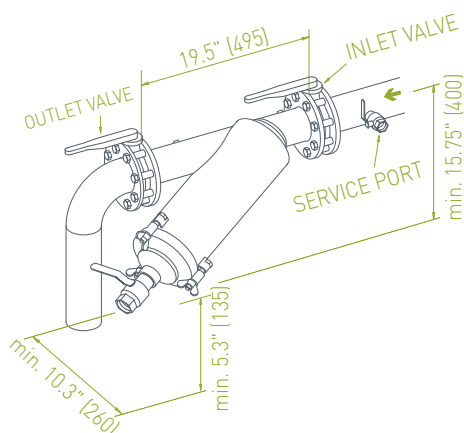
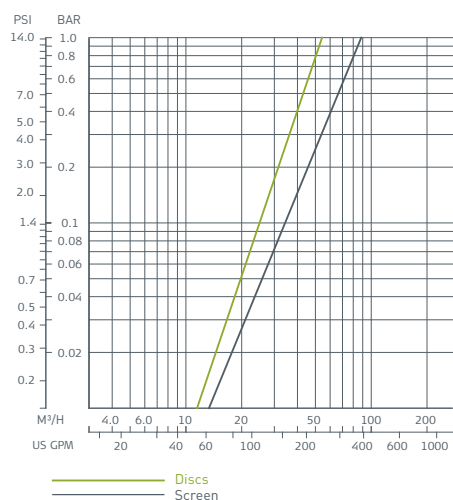
* Consult Amiad for optimum flow depending on filtration degree & water quality.

Typical Installation Drawing

Dim: inch (mm)



Pressure Loss Graph in clean water

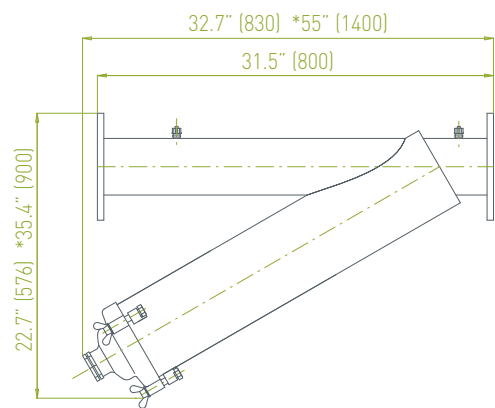


Engineering Data

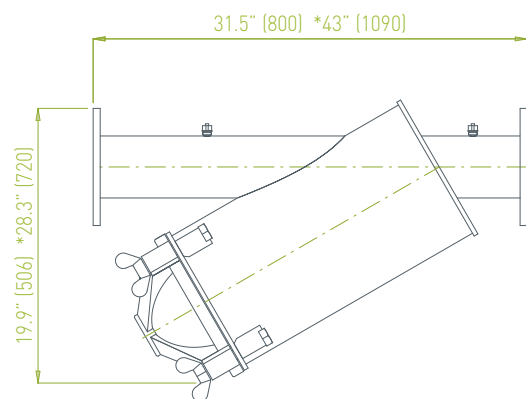
| Filter Type | 2" In-Line | 3" In-Line |
|--------------------------------|--|---|
| Filter Element Data | | |
| Filter area | Weave Wire = 72 in² (465 cm²) Screen = 108.5 in² (700 cm²) Discs = 122.4 in² (790 cm²) | Weave Wire = 144.1 in² (930 cm²) Screen = 221.6 in² (1430 cm²) Discs = 263.5 in² (1700 cm²) |
| Filter element types | Weave Wire Screen, Disc Element, Perforated Screen | |
| Construction Materials* | | |
| Filter housing | Phosphate pre-treated steel 37-2 with Polyester coating | |
| Filter lid | Phosphate pre-treated steel 37-2 with Polyester coating | |
| Seals | Nitril Rubber | |
| Weave wire screen | Polypropylene + Glass fibers, St. St., Nitril rubber | |
| Disc element | Polyethylene, Nitril rubber | |
| Perforated screen | St. St. 316 | |

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

4" C In-Line



4" Super In-Line / 6" Compact



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

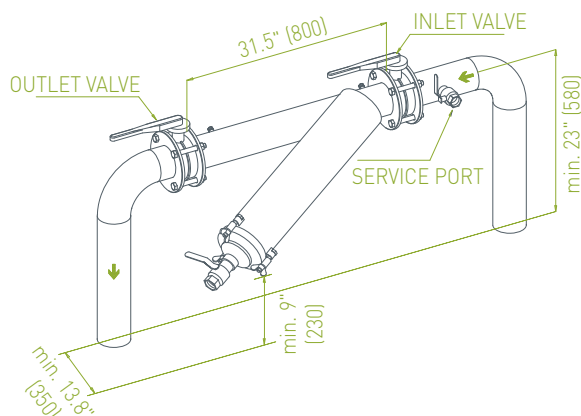
Technical Specifications

| Filter Type | 4" C In-Line | 4" Super In-Line | 6" Compact |
|-----------------------------|---|--------------------------|--------------------------|
| General Data | | | |
| Maximum flowrate* | 352 US gpm (80 m³/h) | 352 US gpm (100 m³/h) | 704 US gpm (160 m³/h) |
| Inlet/Outlet diameter | 4" (100 mm) | 4" (100 mm) | 6" (150 mm) |
| Standard filtration degrees | 3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 80 micron | | |
| Max. working pressure | 150 psi (10 bar) | | |
| Max. working temperature | 140°F (60°C) | | |
| Weight [empty] threads | N/A | | |
| Weight [empty] flanges | Screen = 60.6 lb (27.5 kg) Discs = 66.1 lb (30 kg) | 83.7 lb (38 kg) | 94.7 lb (43 kg) |

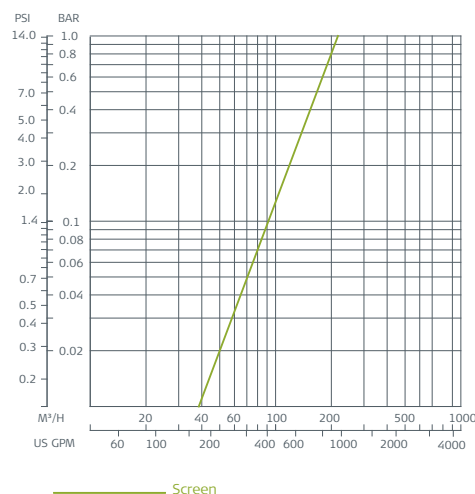
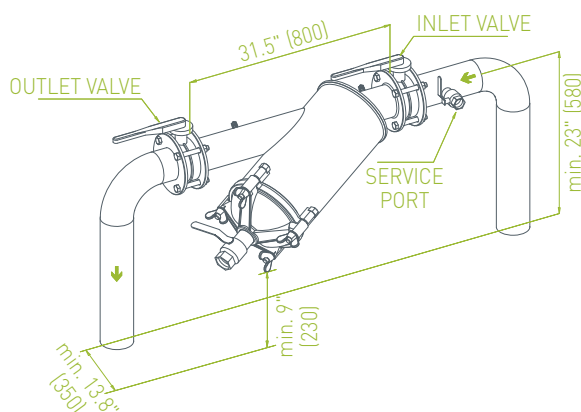
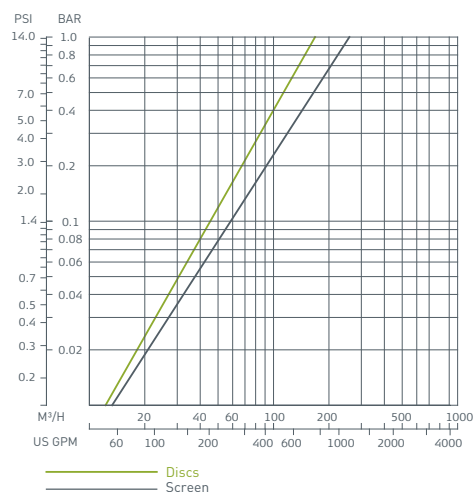
* Consult Amiad for optimum flow depending on filtration degree & water quality.

Typical Installation Drawing

Dim: inch (mm)



Pressure Loss Graph in clean water

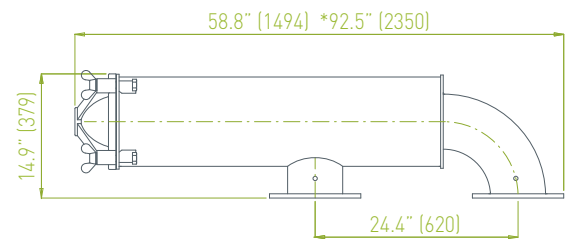


Engineering Data

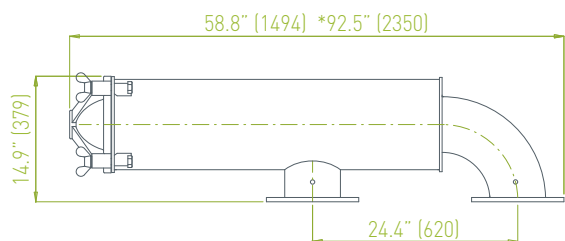
| Filter Type | 4" C In-Line | 4" Super In-Line | 6" Compact |
|-------------------------|---|---|---|
| Screen Data | | | |
| Filter area | Weave Wire = 216 in ² (1392 cm ²) Screen = 337.1 in ² (2175 cm ²) Discs = 403 in ² (2600 cm ²) | 424.7 in ² (2740 cm ²) | 424.7 in ² (2740 cm ²) |
| Screen types | Weave Wire Screen, Perforated Screen | | |
| Construction Materials* | | | |
| Filter housing | Phosphate pre-treated steel 37-2 with Polyester coating | | |
| Filter lid | SMC Polyester | | |
| Seals | Nitril Rubber | | |
| Weave wire screen | St. St. 316 with Nitril rubber seals | | |
| Perforated screen | St. St. 316 with Nitril rubber seals | | |

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

6" Super In-Line / 8" In-Line



6" Super Modular / 8" Modular



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

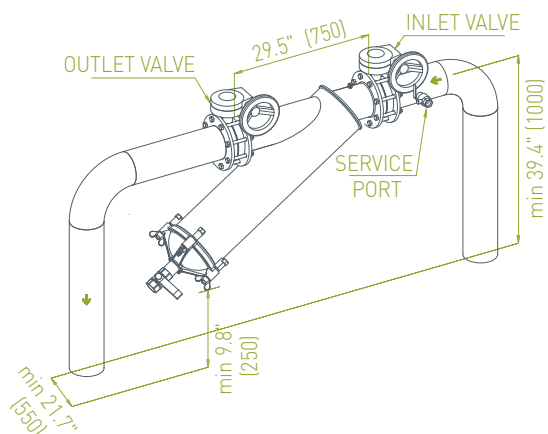
Technical Specifications

| Filter Type | 6" Super In-Line/Modular | 8" In-Line/Modular |
|-----------------------------|---|---------------------------|
| General Data | | |
| Maximum flowrate* | 704 US gpm (160 m³/h) | 1320 US gpm (300 m³/h) |
| Inlet/Outlet diameter | 6" (150 mm) | 8" (200 mm) |
| Standard filtration degrees | 3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 80 micron | |
| Max. working pressure | 150 psi (10 bar) | |
| Max. working temperature | 140°F (60°C) | |
| Weight [empty] | 123.4 lb (56 kg) | 143.2 lb (65 kg) |

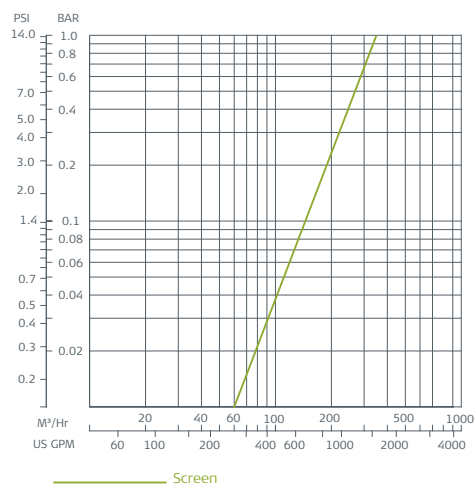
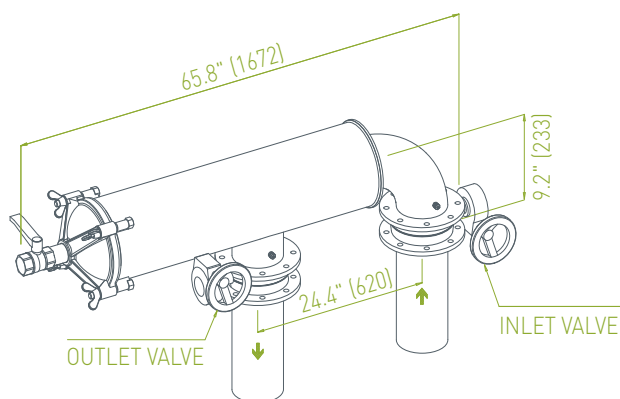
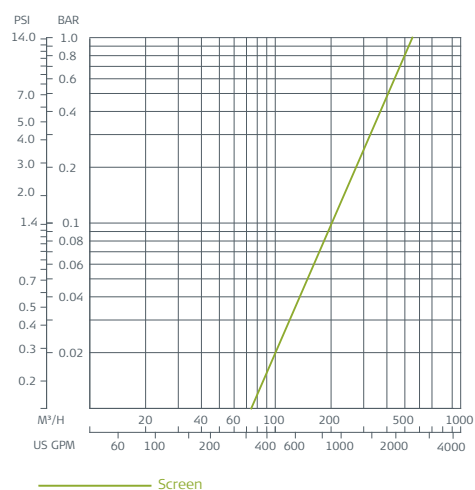
* Consult Amiad for optimum flow depending on filtration degree & water quality.

Typical Installation Drawing

Dim: inch (mm)



Pressure Loss Graph in clean water

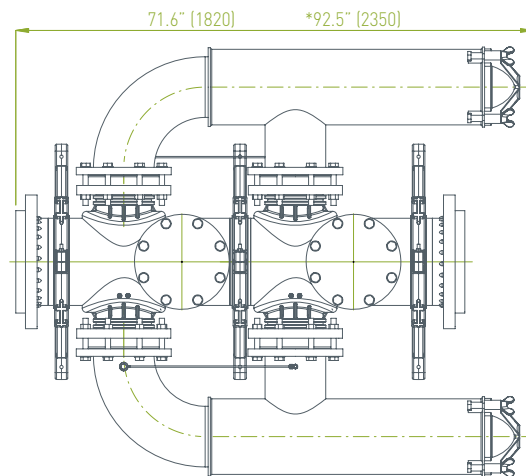


Engineering Data

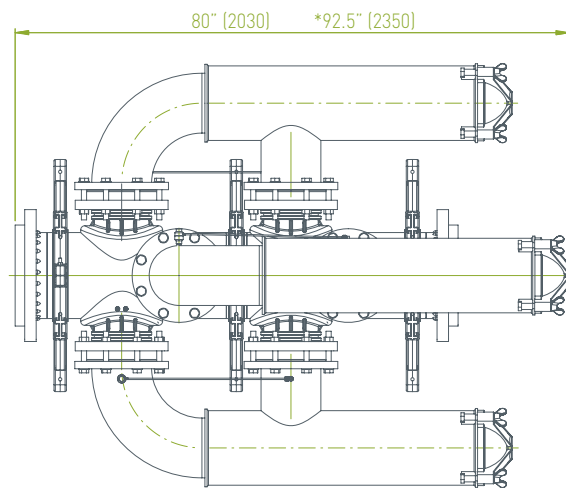
| Filter Type | 6" Super In-Line/Modular | 8" In-Line/Modular |
|--------------------------------|---|----------------------|
| Screen Data | | |
| Filter area | 886.6 in² [5720 cm²] | 886.6 in² [5720 cm²] |
| Screen types | Weave Wire Screen, Perforated Screen | |
| Construction Materials* | | |
| Filter housing | Phosphate pre-treated steel 37-2 with Polyester coating | |
| Filter lid | SMC Polyester | |
| Seals | Nitril Rubber | |
| Weave wire screen | St. St. 316 with Nitril rubber seals | |
| Perforated screen | St. St. 316 with Nitril rubber seals | |

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

12" In-Line (2x8"Modular)



12" In-Line (3x8"Modular)



Dim: inch (mm)

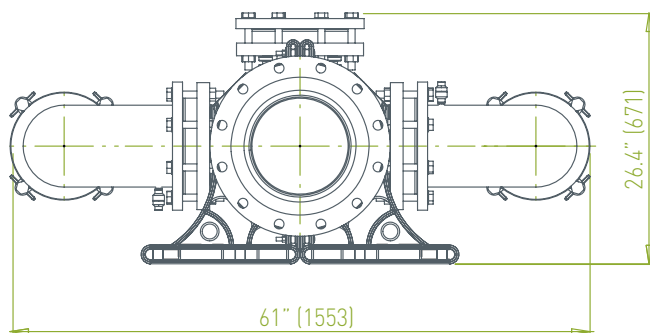
Technical Specifications

| Filter Type | 12" In-Line (2x8" Modular) | 12" In-Line (3x8" Modular) |
|--|---|-------------------------------|
| General Data | | |
| Maximum flow rate* | 2200 US gpm (500 m³/h) | 3300 US gpm (750 m³/h) |
| Inlet/outlet diameter flanges and threads | 12" (300 mm) | 12" (300 mm) |
| Standard filtration degrees | 3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 50 micron | |
| Max. working pressure | 150 psi (10 bar) | |
| Max. working | 140°F (60°C) | |
| Weight [empty] | 617 lb (280 kg) | 772 lb (350 kg) |

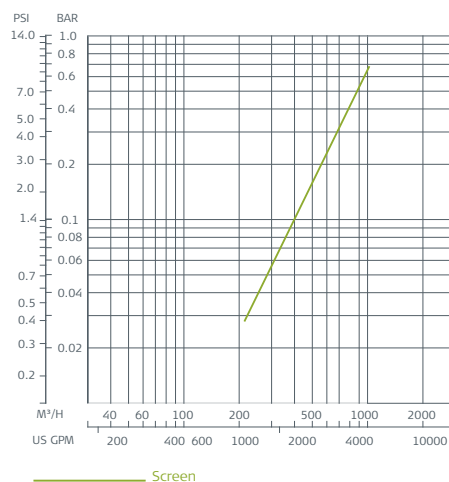
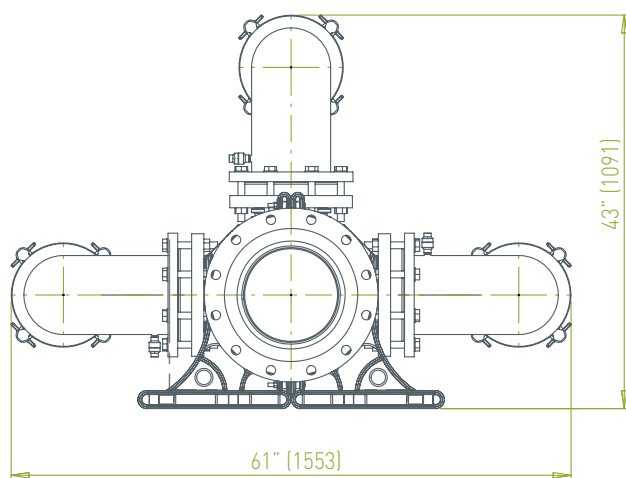
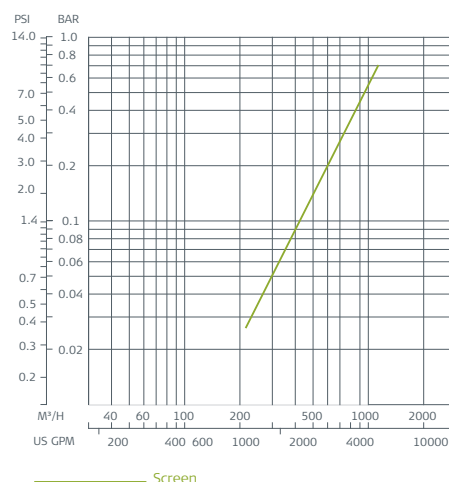
* Consult Amiad for optimum flow depending on filtration degree & water quality

Typical Installation Drawing

Dim: inch (mm)



Pressure Loss Graph in clean water



Engineering Data

| Filter Type | 12" In-Line (2x8" Modular) | 12" In-Line (3x8" Modular) |
|--------------------------------|--------------------------------------|-------------------------------|
| Screen Data | | |
| Filter area | 1773 in² (11,440 cm²) | 2660 in² (17,160 cm²) |
| Screen types | Weave Wire Screen, Perforated Screen | |
| Construction Materials* | | |
| Filter Housing | Phosphate pre-treated | |
| Filter Lid | SMC Polyester | |
| Seals | Nitril Rubber | |
| Weave Wire Screen | St. St. 316 with Nitril rubber seals | |
| Perforated Screen | St. St. 316 with Nitril | |
| Manifold | St. St. 316 with Nitril | |

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

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