

Steel Filters

Durable high quality Steel Filters for wide range of filtration applications



flowrates

**up to 750 m³/h
(4400 US gpm)**

filtration degrees

3500-50 micron

diameters

2" - 12"

maximum operating pressure

10 bar (150 psi)

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, 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.

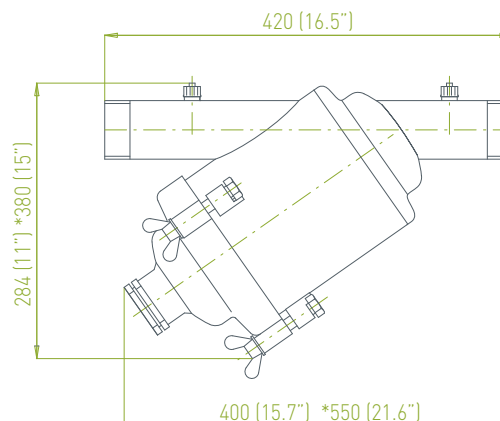
Filtration Degrees Available

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.

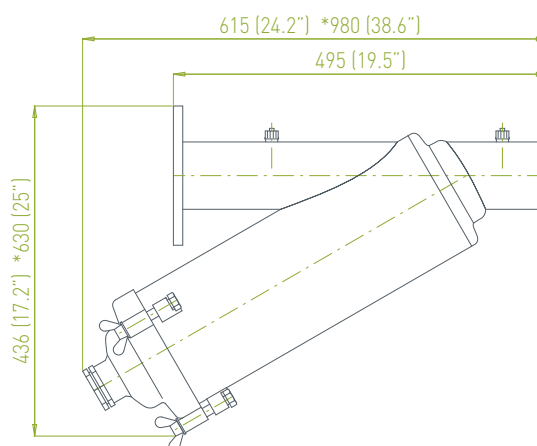
Color	Orange	Black	Yellow	Red	Purple	White	Brown	Blue	Green	Gray			
Micron	50	80	100	130	180	200	250	300	500	800	1500	2500	3500
Mesh	300	200	155	120	80	75	60	50	30	20	10	6	4
2", 3", 4"	▲	▲	▲●	▲●	●	▲	●	▲	▲	★	★	★	★
4" S - 12"	▲	▲	▲	▲		▲		▲	▲	★	★	★	★

▲ Weave Wire Screen ● Disc Element ★ Perforated Screen

2" In-Line



3" In-Line



Dim: mm (inch)

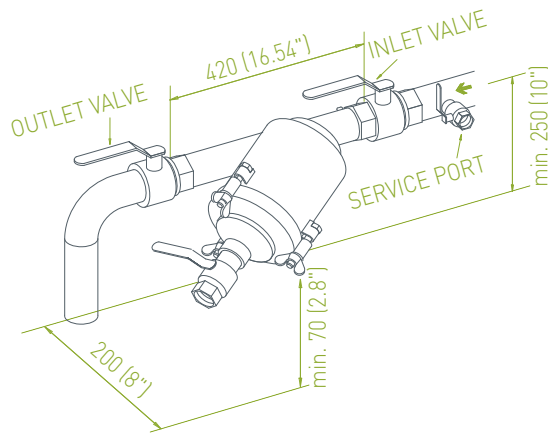
*Approx. length required for maintenance

Technical Specifications

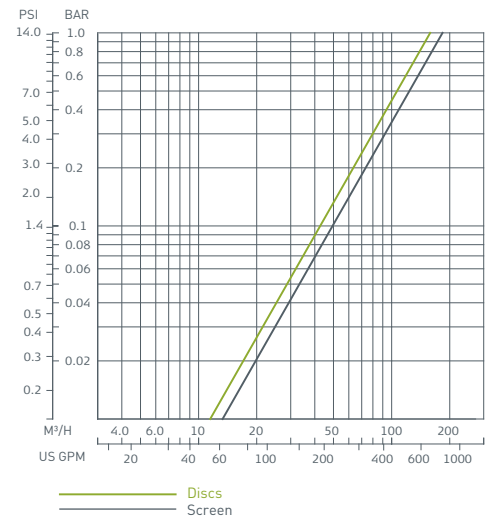
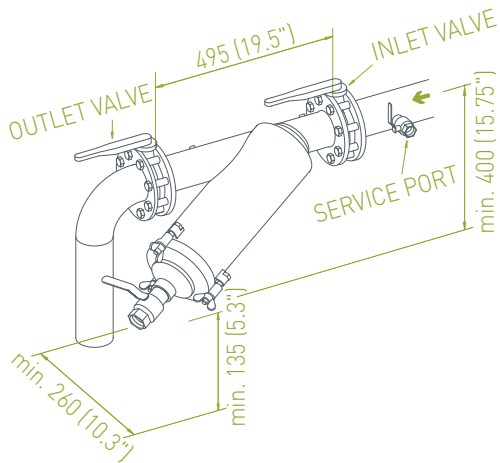
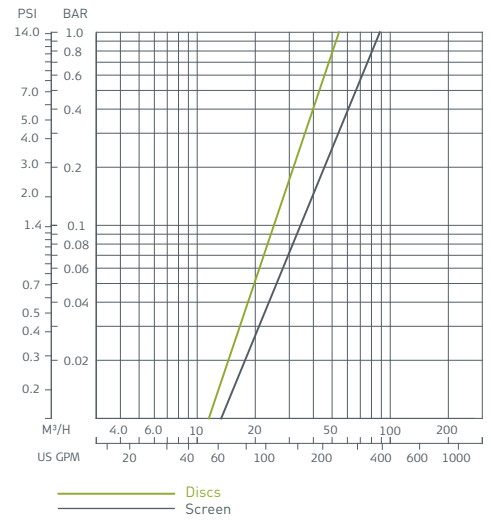
Filter Type	2" In-Line	3" In-Line
General Data		
Maximum flowrate*	25 m ³ /h (110 US gpm)	50 m ³ /h (220 US gpm)
Inlet/outlet diameter flanges and threads	2" (50 mm)	3" (80 mm)
Standard filtration degrees	3500, 2500, 1500, 800, 500, 300, 250, 200, 130, 100, 80, 50 micron	
Max. working pressure	10 bar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

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

Typical Installation Drawing



Pressure Loss Graph in clean water



Dim: mm (inch)

Engineering Data

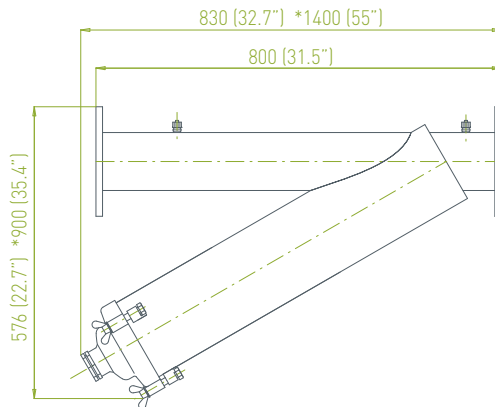
Filter Type	2" In-Line	3" In-Line
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Filter Element Data		
Filter area	Weave Wire = 465 cm ² [72 in ²] Screen = 700 cm ² [108.5 in ²] Discs = 790 cm ² [122.4 in ²]	Weave Wire = 930 cm ² [144.1 in ²] Screen = 1430 cm ² [221.6 in ²] Discs = 1700 cm ² [263.5 in ²]
Filter element types	Weave Wire Screen, Disc Element, Perforated Screen	

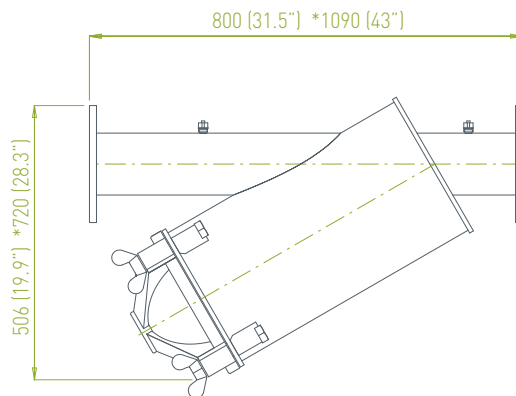
Construction Materials*	
Filter housing	Phosphate pre-treated steel 37-2 with Polyester coating
Filter lid	Phosphate pre-treated steel 37-2 with Polyester coating
Seals	Nitril Rubber
Weave wire screen	Polypropylene + Glass fibers, St. St., Nitril rubber
Disc element	Polyethylene, Nitril rubber
Perforated 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: mm (inch)

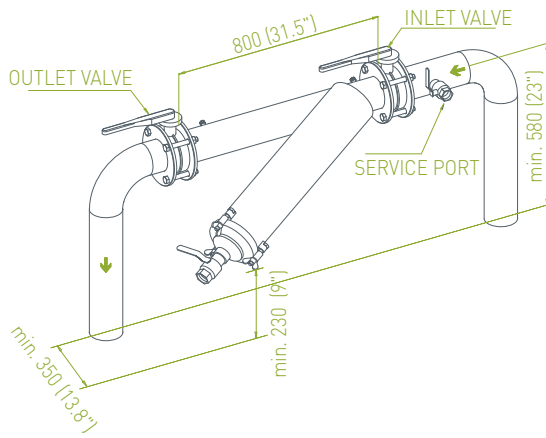
*Approx. length required for maintenance

Technical Specifications

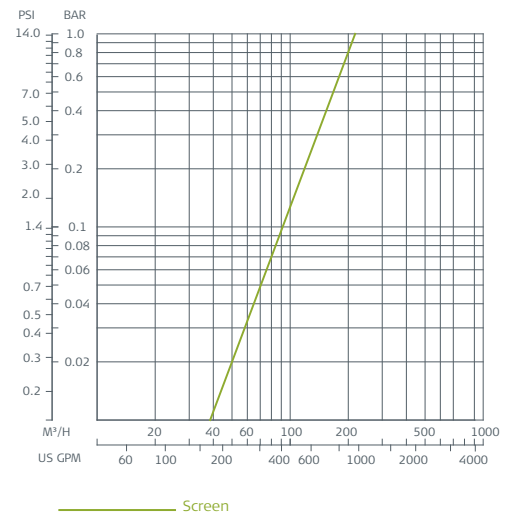
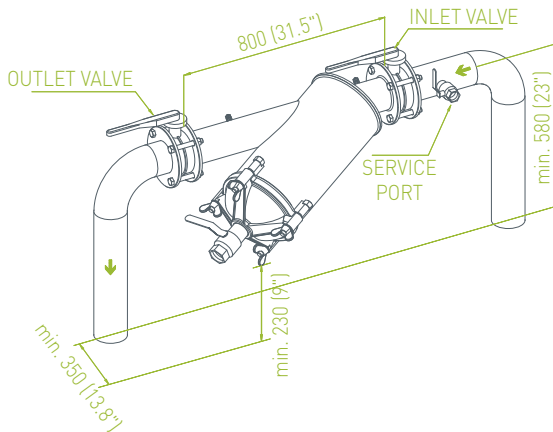
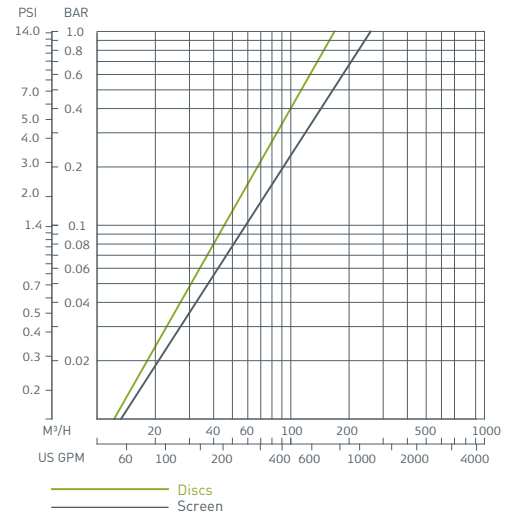
Filter Type	4" C In-Line	4" Super In-Line	6" Compact
General Data			
Maximum flowrate*	80 m ³ /h (352 US gpm)	100 m ³ /h (352 US gpm)	160 m ³ /h (704 US gpm)
Inlet/Outlet diameter	4" (100 mm)	4" (100 mm)	6" (150 mm)
Standard filtration degrees	3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 80 micron		
Max. working pressure	10 bar (150 psi)		
Max. working temperature	60°C (140°F)		
Weight [empty] threads	N/A		
Weight [empty] flanges	Screen = 27.5 kg (60.6 lb) Discs = 30 kg (66.1 lb)	38 kg (83.7 lb)	43 kg (94.7 lb)

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

Typical Installation Drawing



Pressure Loss Graph in clean water



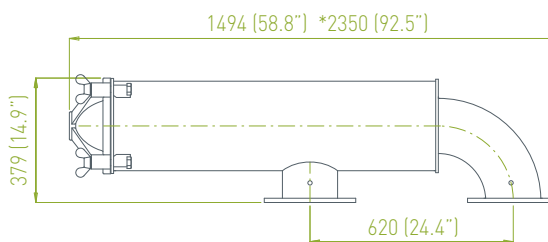
Dim: mm (inch)

Engineering Data

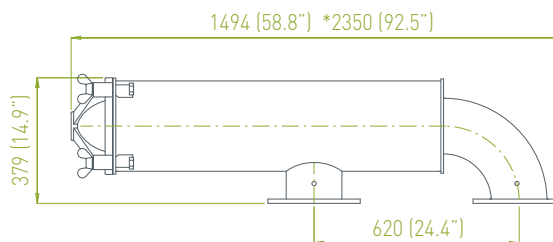
Filter Type	4" C In-Line	4" Super In-Line	6" Compact
Screen Data			
Filter area	Weave Wire = 1392 cm ² (216 in ²) Screen = 2175 cm ² (337.1 in ²) Discs = 2600 cm ² (403 in ²)	2740 cm ² (424.7 in ²)	2740 cm ² (424.7 in ²)
Screen types	Weave Wire Screen, Perforated Screen		
Construction Materials*			
Filter 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: mm (inch)

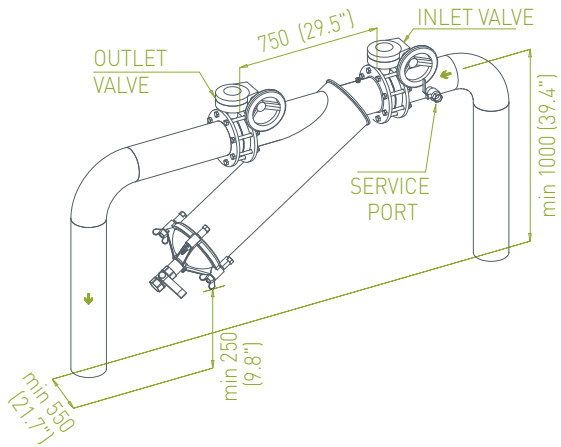
*Approx. length required for maintenance

Technical Specifications

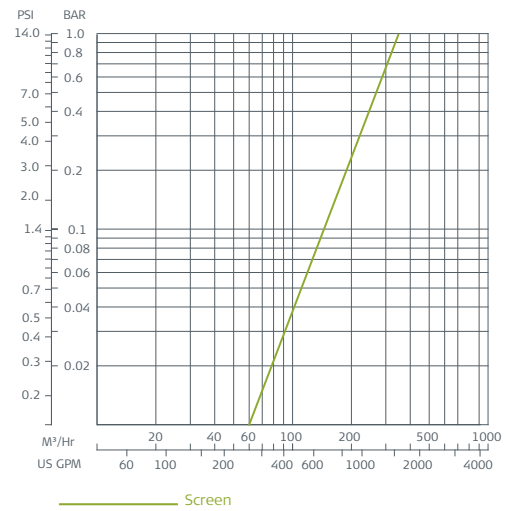
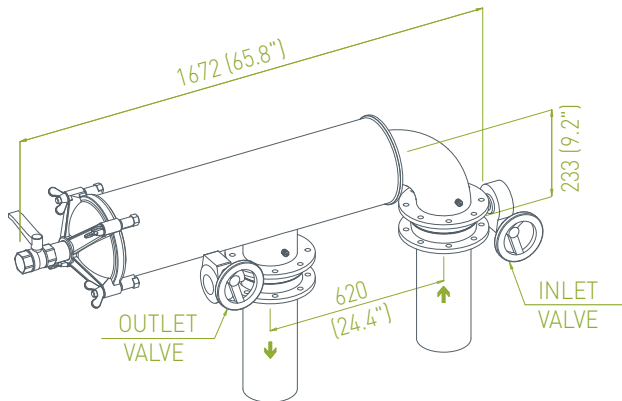
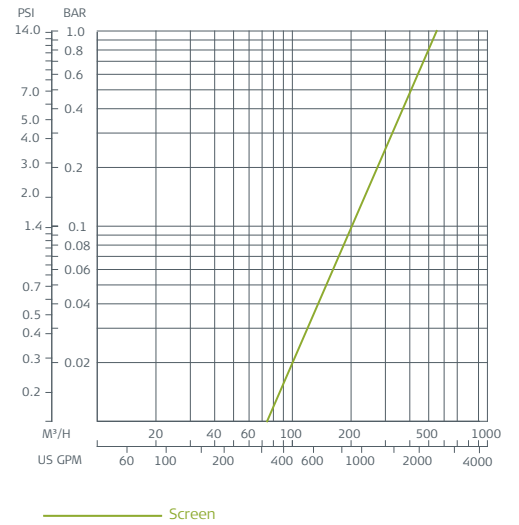
Filter Type	6" Super In-Line/Modular	8" In-Line/Modular
General Data		
Maximum flowrate*	160 m ³ /h (704 US gpm)	300 m ³ /h (1320 US gpm)
Inlet/Outlet diameter	6" (150 mm)	8" (200 mm)
Standard filtration degrees	3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 80 micron	
Max. working pressure	10 bar (150 psi)	
Max. working temperature	60°C (140°F)	
Weight [empty]	56 kg (123.4 lb)	65 kg (143.2 lb)

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

Typical Installation Drawing



Pressure Loss Graph in clean water



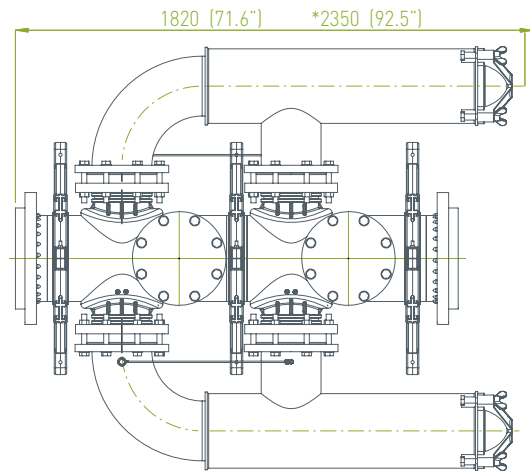
Dim: mm (inch)

Engineering Data

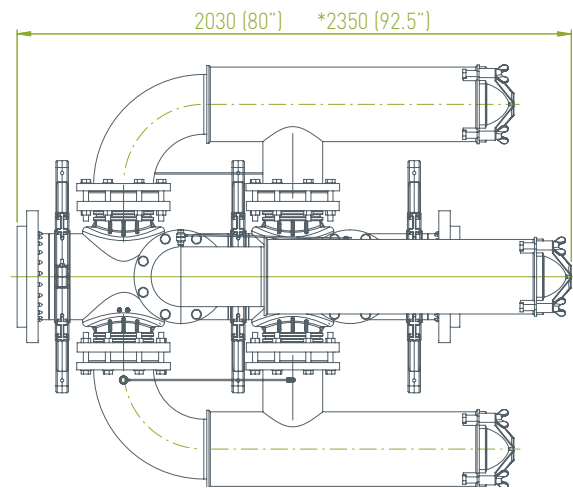
Filter Type	6" Super In-Line/Modular	8" In-Line/Modular
Screen Data		
Filter area	5720 cm ² (886.6 in ²)	5720 cm ² (886.6 in ²)
Screen types	Weave Wire Screen, Perforated Screen	
Construction Materials*		
Filter housing	Phosphate pre-treated steel 37-2 with Polyester coating	
Filter lid	SMC Polyester	
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.

12" In-Line (2x8" Modular)



12" In-Line (3x8" Modular)



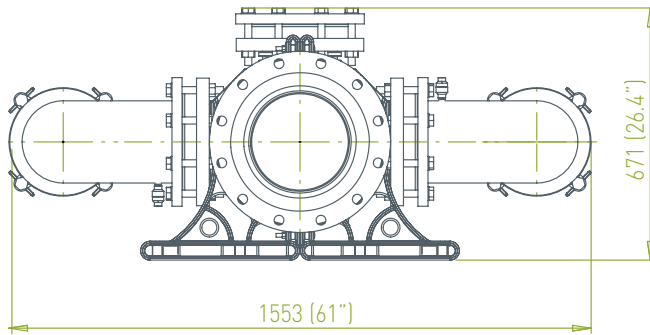
Dim: mm (inch)

Technical Specifications

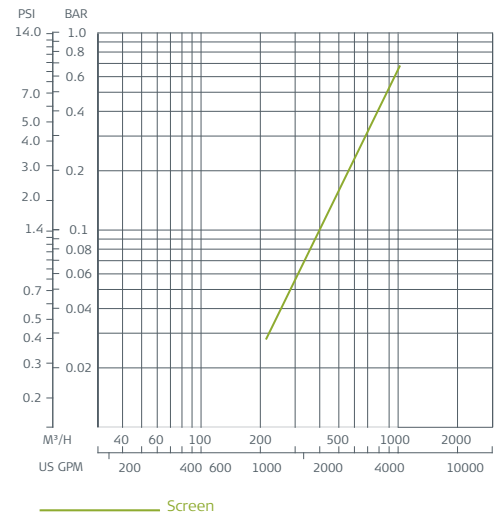
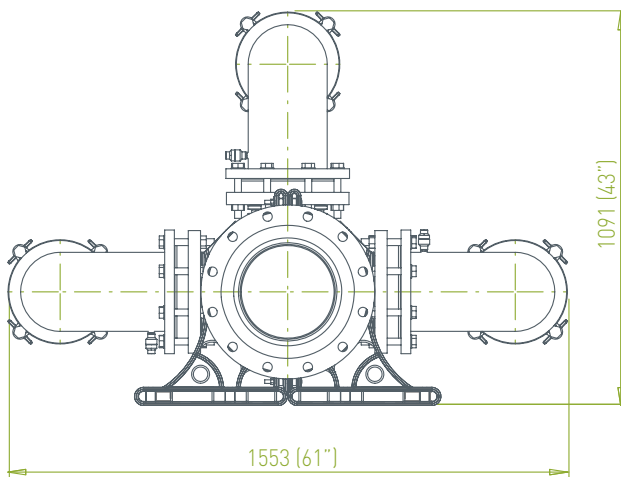
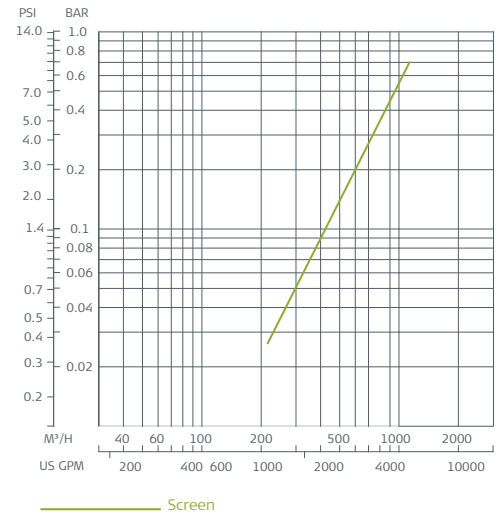
Filter Type	12" In-Line (2x8" Modular)	12" In-Line (3x8" Modular)
General Data		
Maximum flow rate*	500 m ³ /h (2200 US gpm)	750 m ³ /h (3300 US gpm)
Inlet/outlet diameter flanges and threads	12" (300 mm)	12" (300 mm)
Standard filtration degrees	3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 50 micron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

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

Typical Installation Drawing



Pressure Loss Graph in clean water



Dim: mm (inch)

Engineering Data

Filter Type	12" In-Line (2x8" Modular)	12" In-Line (3x8" Modular)
Screen Data		
Filter area	11,440 cm ² (1773 in ²)	17,160 cm ² (2660 in ²)
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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