

Steel Filters

Durable high quality Steel Filters for wide range of filtration applications



flow rates

**up to 1000 m³/h
(44000 US gpm)**

filtration degrees

3500-50 micron

diameters

2" - 14"

maximum operating pressure

10 bar (150 psi)

features:

- Interchangeable filter elements for wide range of flow rates, 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 flow rates, 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.

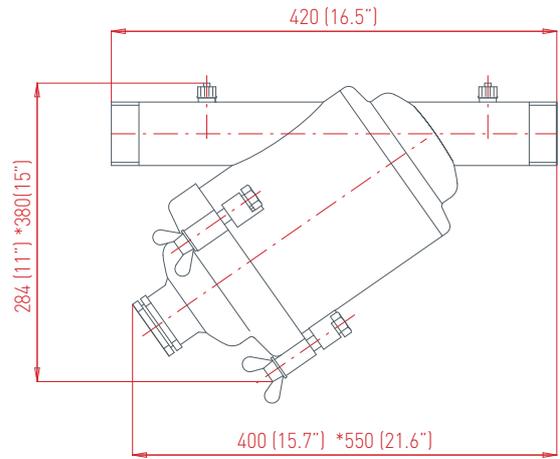
Filtration Degrees Available

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.

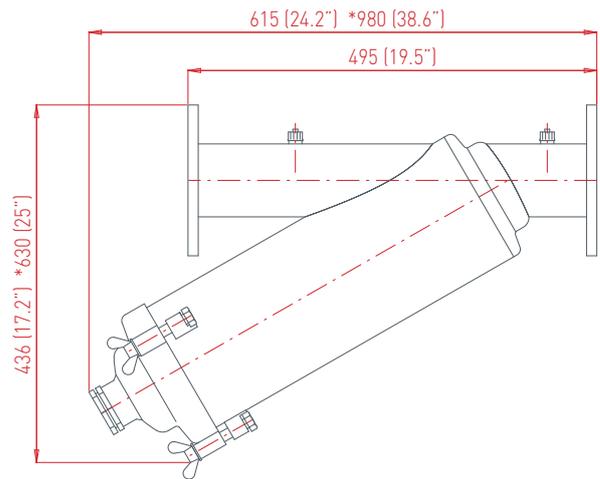
Color	Orange	Black	Yellow	Red	Purple	White	Brown	Blue	Green	Gray			
Micron	50	80	100	130	180	200	250	300	500	800	1500	2500	3500
Mesh	300	200	155	120	80	75	60	50	30	20	10	6	4
2", 3", 4"	▲	▲	▲★	▲★	★	▲	★	▲	▲	●	●	●	●
4"S - 14"	▲	▲	▲	▲		▲		▲	▲	●	●	●	●

▲ Weave Wire Screen ★ Disc Element ● Perforated Screen

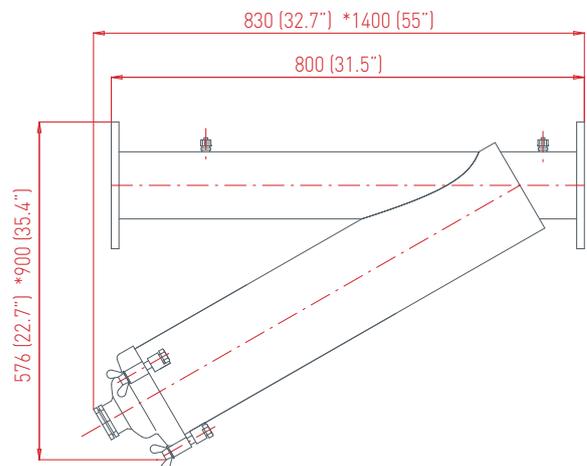
2" In-Line



3" In-Line



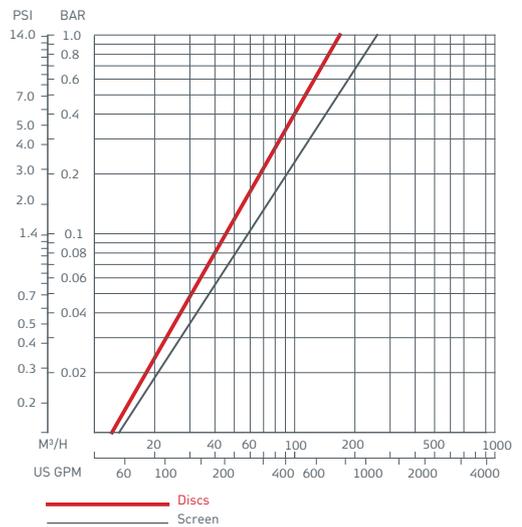
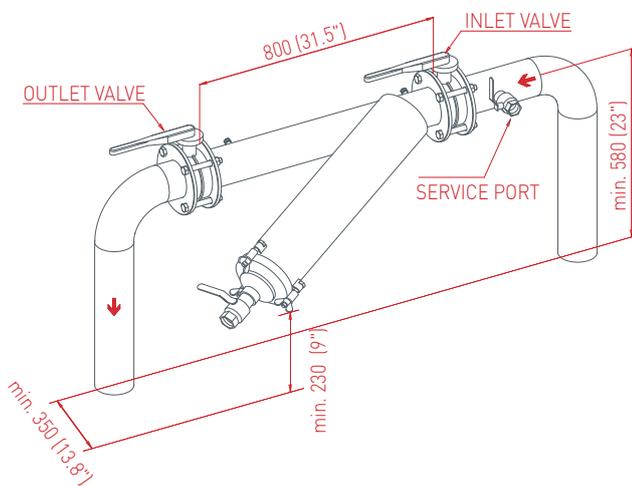
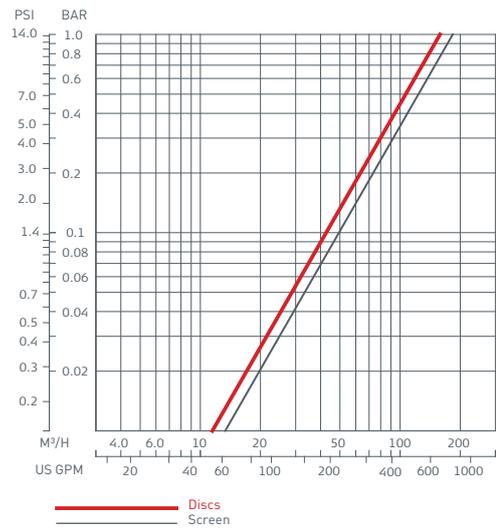
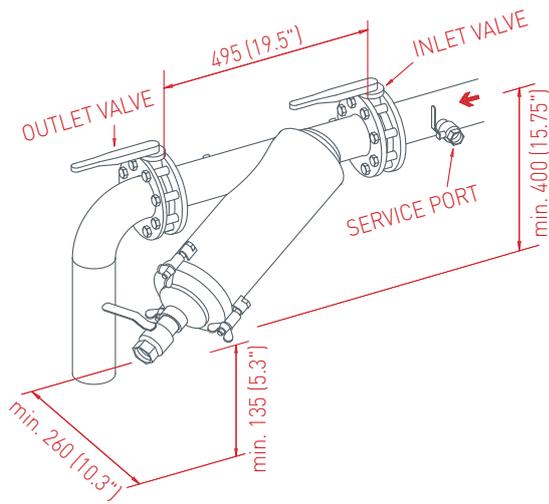
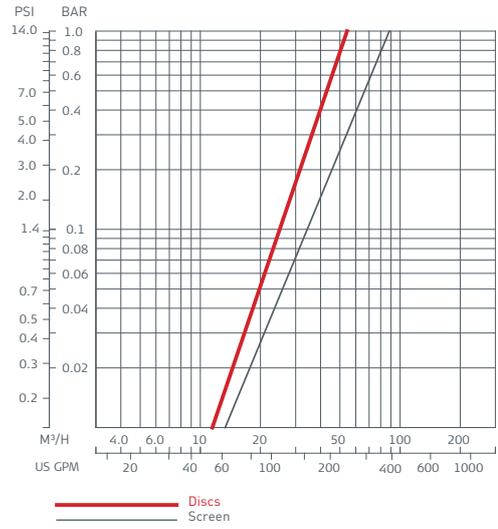
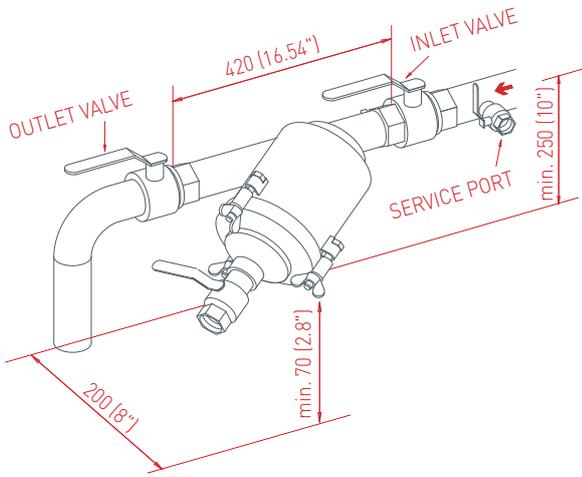
4" C In-Line



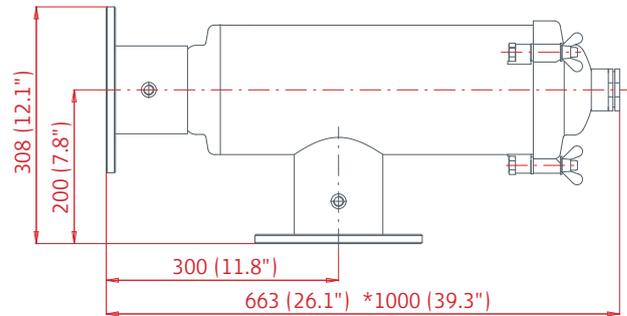
Dim. in mm (inch)

*Approx. length required for maintenance

Pressure Loss Graphs



4”L filter

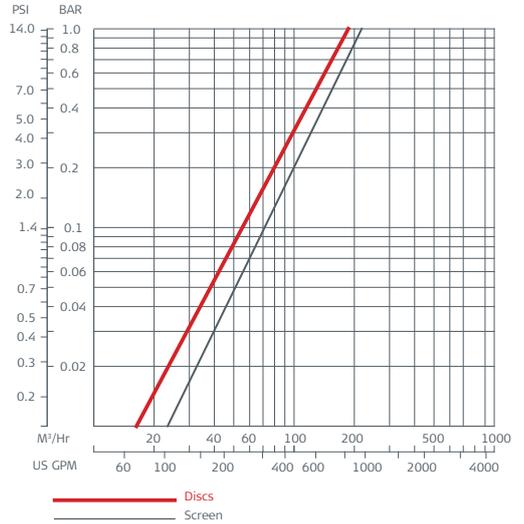
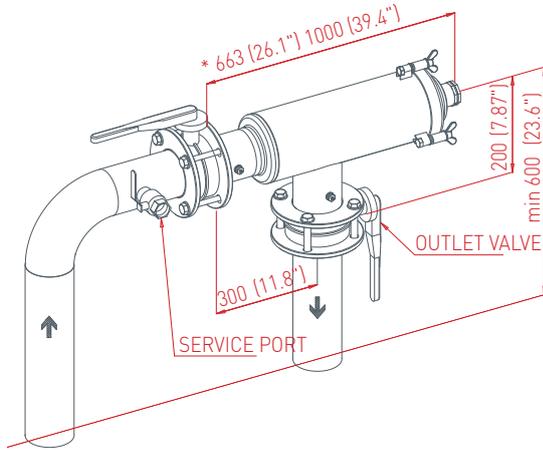


Technical Specifications

Filter Type	2" In-Line	3" In-Line	4" C In-Line	4" L
General Data				
Maximum flow rate*	25 m ³ /h (110 US gpm)	50 m ³ /h (220 US gpm)	80 m ³ /h (352 US gpm)	80 m ³ /h (352 US gpm)
Inlet/outlet diameter flanges and threads	2" (50 mm)	3" (80 mm)	4" (100 mm)	4" (100 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)	N/A	N/A
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)	Screen = 27.5 kg (60.6 lb) Discs = 30 kg (66.1 lb)	Screen = 18 kg (39.7 lb) Discs = 20 kg (44 lb)

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

Pressure Loss Graphs



Dim. in mm (inch)

*Approx. length required for maintenance

Engineering Data

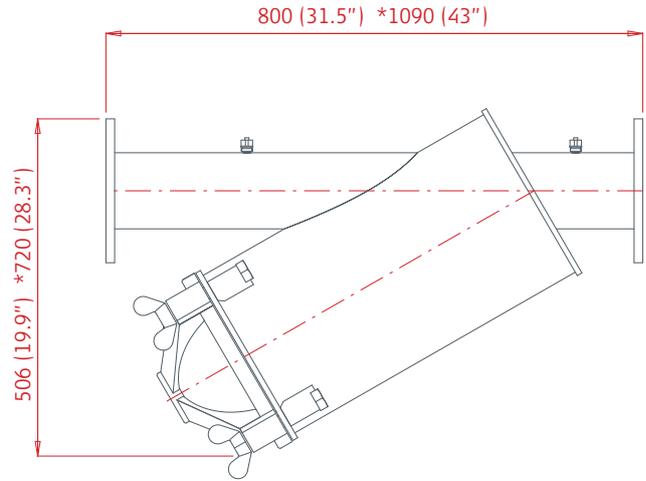
Filter Type	2" In-Line	3" In-Line	4" C In-Line	4" L
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Filter Element Data				
Filter area	Weave Wire = 465 cm ² (72 in ²) Screen = 700 cm ² (108.5 in ²) Discs = 790 cm ² (122.4 in ²)	Weave Wire = 930 cm ² (144.1 in ²) Screen = 1430 cm ² (221.6 in ²) Discs = 1700 cm ² (263.5 in ²)	Weave Wire = 1392 cm ² (216 in ²) Screen = 2175 cm ² (337.1 in ²) Discs = 2600 cm ² (403 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			

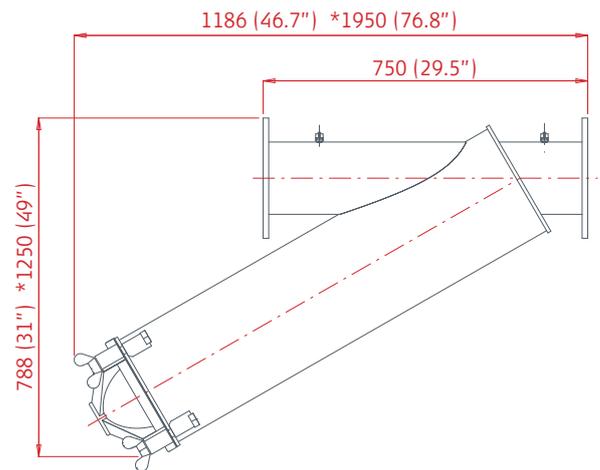
*Construction Materials	
Filter housing	Phosphate pre-treated steel 37-2 with Polyester coating
Filter lid	Phosphate pre-treated steel 37-2 with Polyester coating
Seals	Nitril Rubber
Weave wire screen	Polypropylene + Glass fibers, St. St., Nitril rubber
Disc element	Polyethylene, Nitril rubber
Perforated screen	St. St. 316

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

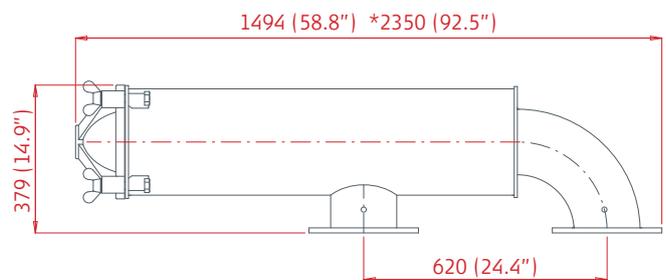
4" Super In-Line / 6" In-Line



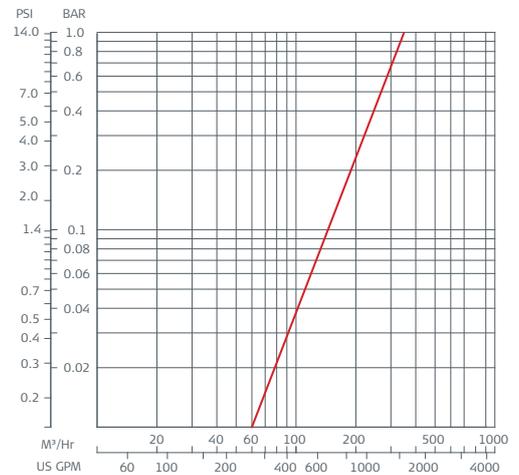
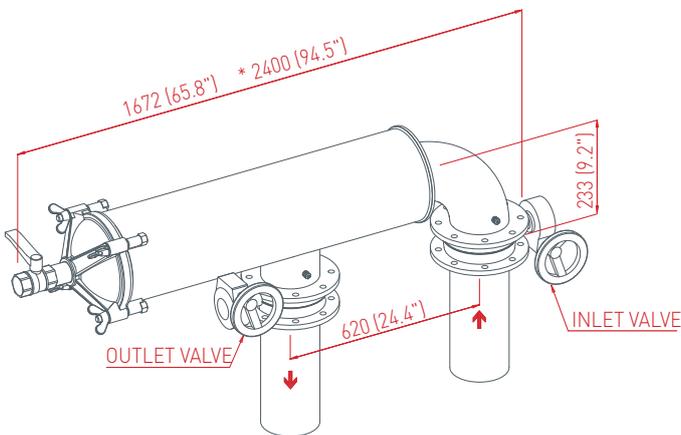
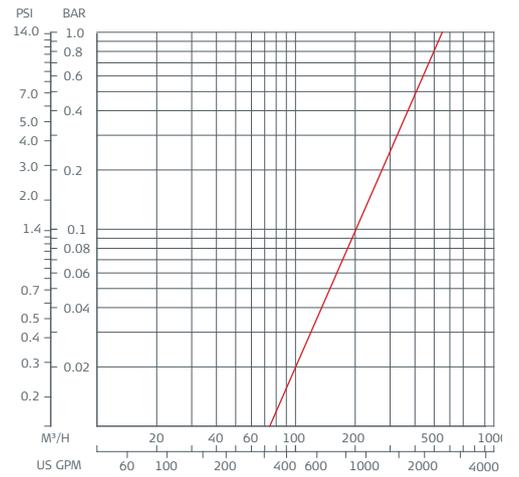
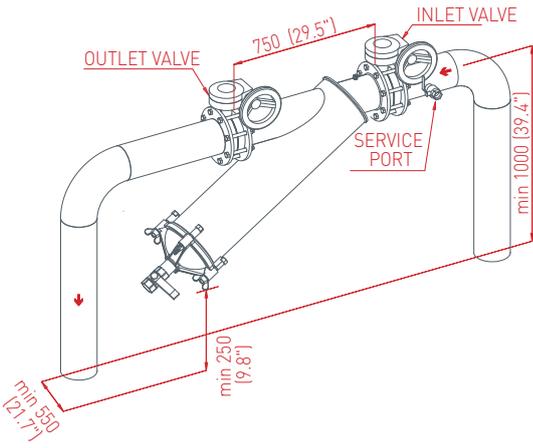
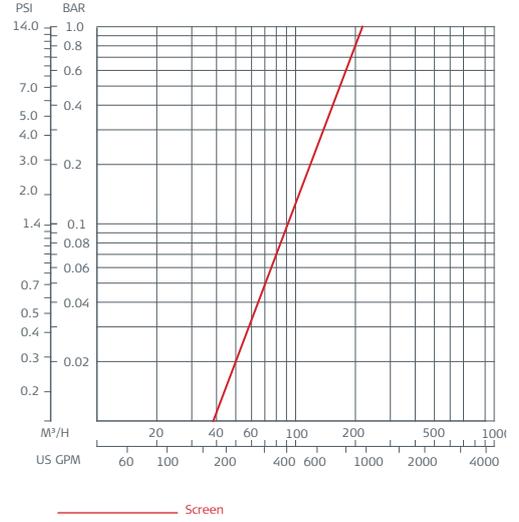
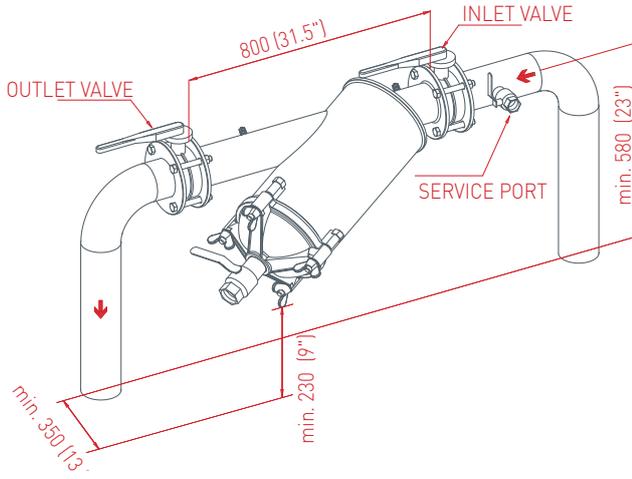
6" Super In-Line / 6" In-Line



6" Super Modular / 8" Modular



Pressure Loss Graphs



Dim. in mm (inch)

*Approx. length required for maintenance

Technical Specifications

Filter Type	4" Super In-Line	6" In-Line	6" Super In-Line	8" In-Line
General Data				
Maximum flow rate*	100 m ³ /h (352 US gpm)	160 m ³ /h (704 US gpm)	160 m ³ /h (704 US gpm)	300 m ³ /h (1320 US gpm)
Inlet/Outlet diameter	4" (100 mm)	6" (150 mm)	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]	38 kg (83.7 lb)	43 kg (94.7 lb)	56 kg (123.4 lb)	65 kg (143.2 lb)

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

Engineering Data

Screen Data				
Filter area	2740 cm ² (424.7 in ²)	2740 cm ² (424.7 in ²)	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

Technical Specifications

Filter Type	10" In-Line	12" In-Line	14" In-Line
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General Data			
Maximum flow rate*	500 m ³ /h (2200 US gpm)	650 m ³ /h (2861 US gpm)	1000 m ³ /h (4400 US gpm)
Inlet/Outlet diameter	10" (250 mm)	12" (300 mm)	14" (350 mm)
Standard filtration degrees	3500, 2500, 1500, 800, 500, 300, 200, 130, 100, 50 micron		
Max. working pressure	10 bar (150 psi)		
Max. working temperature	60°C (140°F)		
Weight [empty]	191 kg (421 lb)	280 kg (617 lb)	365 kg (805 lb)

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

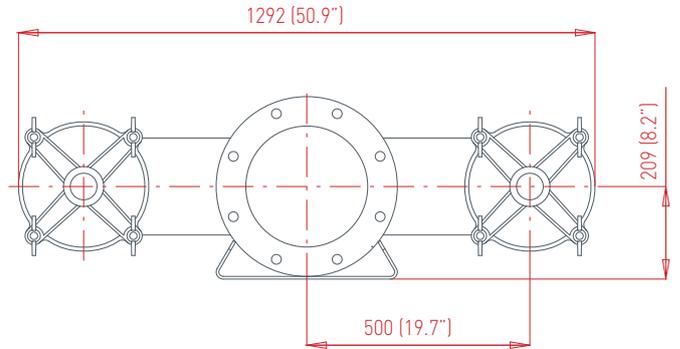
Engineering Data

Screen Data			
Filter area	11,440 cm ² (1773.2 in ²)	17,260 cm ² (2675.3 in ²)	22,880 cm ² (3546.4 in ²)
Screen types	Weave Wire Screen, Perforated Screen		

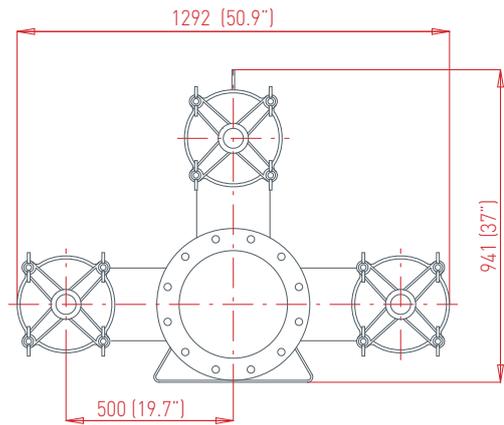
*Construction Materials	
Filter Housing	Phosphate pre-treated steel 37-2 with Polyester coating
Filter Lid	SMC Polyester
Seals	Nitril Rubber
Weave Wire Screen	St. St. 316 with Nitril rubber seals
Perforated Screen	St. St. 316 with Nitril rubber seals

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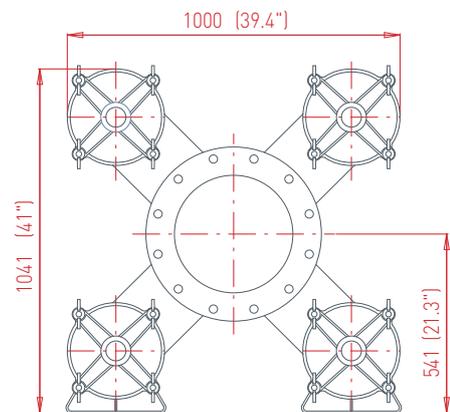
10" In-Line



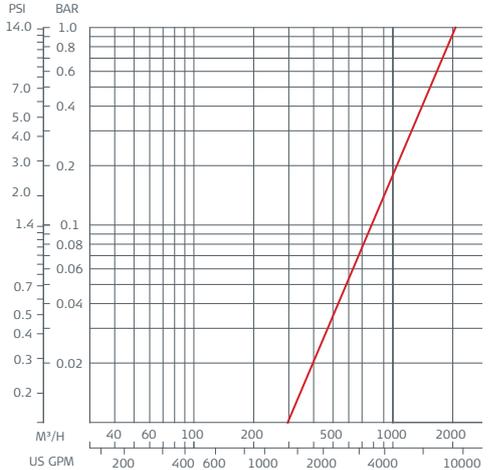
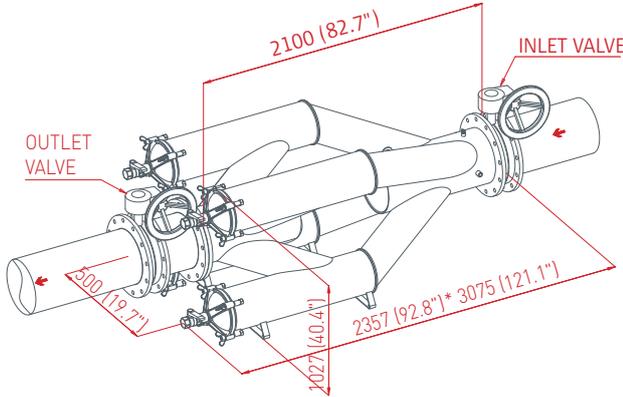
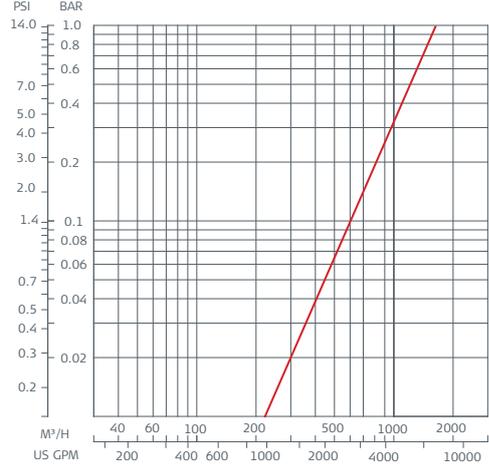
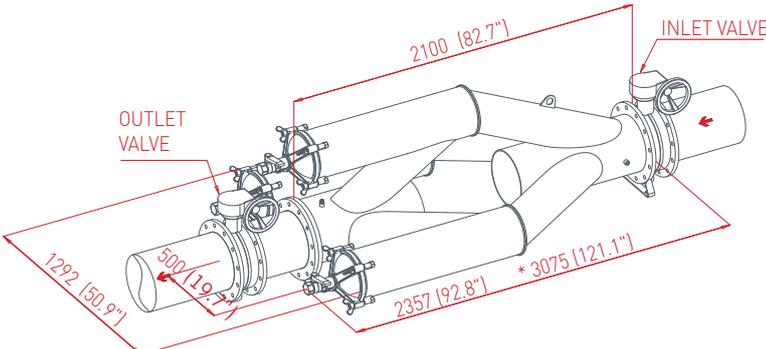
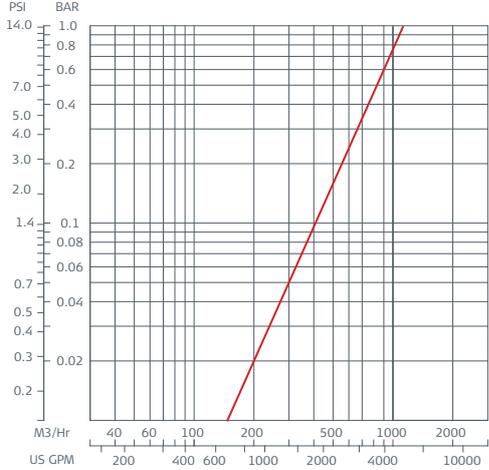
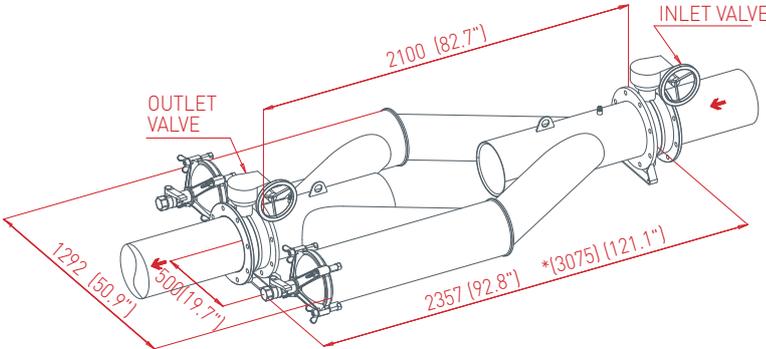
12" In-Line



14" In-Line



Pressure Loss Graphs



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



Municipal



Industry



Irrigation

Headquarters

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 12335, Israel,
Tel: 972 4 690 9500, Fax: 972 4 690 9391,
E-mail: info@amiad.com

North America

Amiad Filtration Systems, 2220 Celsius Avenue, Oxnard,
California 93030, USA, Tel: 1 805 988 3323, Fax: 1 805 988 3313,
E-mail: info@amiadusa.com

South America

Amiad Oil & Gas, Benito Nardone 2219, Montevideo, Uruguay,
Tel: 598 2 7117617, Fax: 598 2 7120816,
E-mail: amisur@adinet.com.uy

Chile

Amiad Andina, Carretera General San Martín 16.500 No 30,
Loteo Industrial Los Libertadores, Colina, Santiago de Chile,
Tel: 56 2 489 5100, Fax: 56 2 489 5101,
E-mail: amiadandina@amiad.com

Brazil

E-mail: amiad@amiad.com.br

Europe

Amiad Water Systems Europe SAS, Ilot No4 ZI La Boitardière,
37530 Chargé, Tel: 33 (0) 2 47 23 01 10, Fax: 33 (0) 2 47 23 80 67,
E-mail: info@amiadfrance.com

Germany

Amiad Filtration Solutions (2004) Ltd. Zweigniederlassung
Deutschland Prinz-Regent-Str. 68 a 44795 Bochum,
Tel: 49 (0) 234 588082-0, Fax: 49 (0) 234 588082-12,
E-mail: info@amiad.de

Turkey

FTS – Filtration & Treatment Systems, Istanbul yolu 26 Km,
Yurt Orta Sanayii, Saray, Ankara, Tel: 90 312 8155266/7,
Fax: 90 312 8155248, E-mail: info@fts-filtration.com

India

Amiad Filtration India Pvt Limited, 305 Sai Commercial Building
Govandi St Rd, Govandi Mumbai 400 088, Tel: 91 22-67997813/14,
Fax: 91 22-67997814, Email: info@amiadindia.com

China

Yixing Taixing Environtec Co., Ltd. 70 Baihe Chang, Xingjie Yixing
Jiangsu, 214204, Tel: 86 510 87134000, Fax: 86 510 87134999,
E-mail: marketing@taixing.cc

South-East Asia

Filtration & Control Systems Pte. Ltd., 19B Teo Hong Road,
088330 Singapore, Tel: 65 6 337 6698, Fax: 65 6 337 8180,
E-mail: fcs1071@pacific.net.sg

Australia

Amiad Australia Pty Ltd. 138 Northcorp Boulevard,
Broadmeadows, Victoria 3047,
Tel: 61 3 93585800, Fax: 61 3 93585888,
E-mail: sales@amiad.com.au

www.amiad.com

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