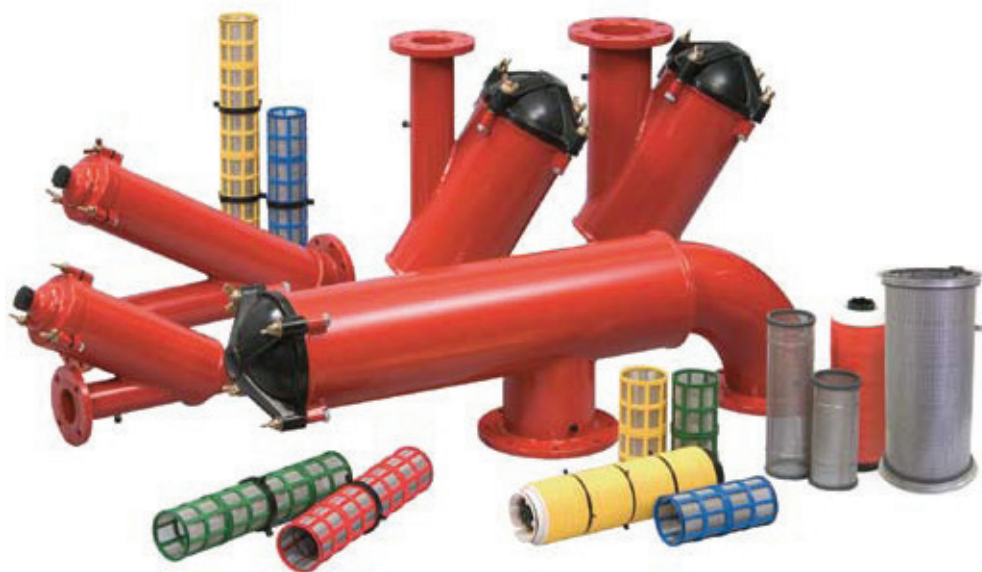


## STEEL Filters

| flow rates  | filtration degrees    | diameters       | max. operating pressure |
|---|-----------------------|-----------------|-------------------------|
| up to <b>1000 m<sup>3</sup>/h</b><br>(44000 US gpm) | <b>3500-50</b> micron | <b>2" - 14"</b> | <b>10 bar</b> (150 psi) |

Durable high quality Steel Filters for wide range of filtration applications



### 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

# Steel Filters

## General

With their various filter elements, Timex'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 along with stainless steel housings that are also available.

Timex steel filters need no tools for dismantling or for extracting the filter element from the filter housing for rinsing, also visually monitoring the status of the filter element without disrupting the water flow is easily done with Timex's innovative clogging indicator connected to the filter's pressure check points.

Timex steel filters can be upgraded to semi-automatic operation by adding one of Timex's exclusive Turboclean, Brushaway or Scanaway assemblies.

## Filter Elements

Timex supplies various filter elements for its steel filters in order to cover wide range of flow rates, multiple filtration degrees and applications:

### Stainless steel Screen elements: (1)

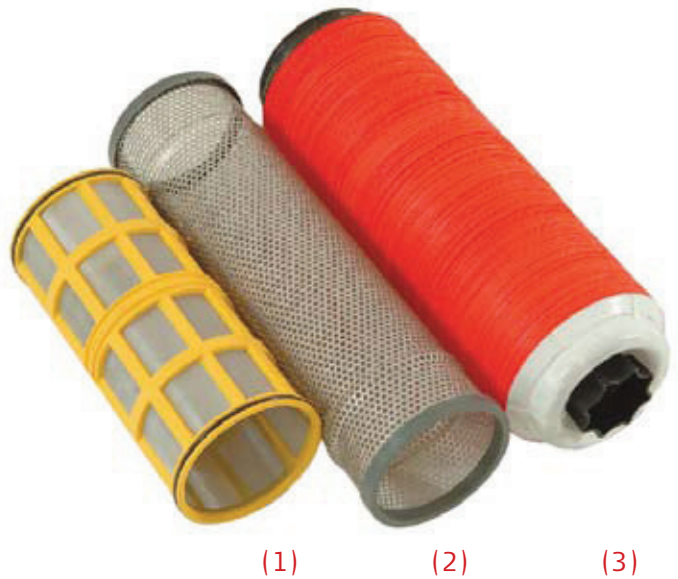
These screen elements are constructed of molded plastic ribs that support a stainless steel weave-wire screen for filtration degrees of 50 to 800 micron.

### 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 to the cylinder ends provide perfect sealing of the element inside the filter housing.

### This arrangement allows:

- 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 made 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 and intersected to form the filtration element when compressed on the telescopic core. 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 perfect sealing when the element is in the filter housing.

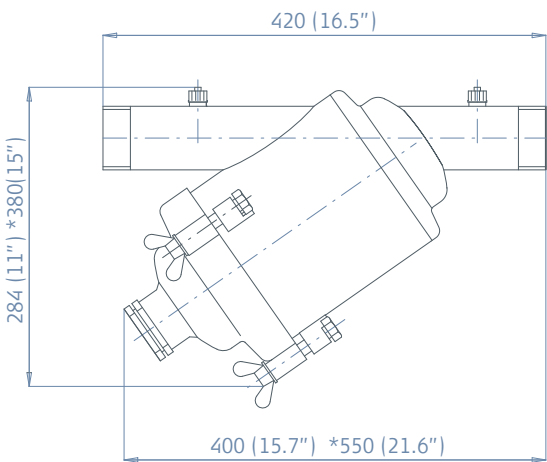
Filtration Degrees Available

The following table lists the various filter elements of Timex's Steel Filters 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.

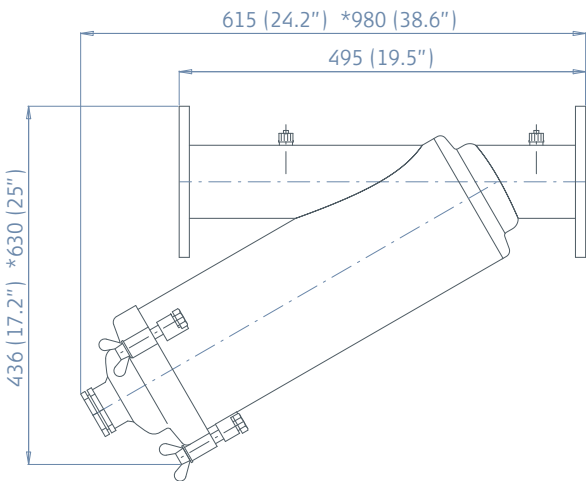
| Color      | Orange | Black | Yellow | Red | Purple | White | Brown | Blue | Green | Gray |      |      |      |
|------------|--------|-------|--------|-----|--------|-------|-------|------|-------|------|------|------|------|
| Micron     | 50     | 80    | 100    | 130 | 180    | 200   | 250   | 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

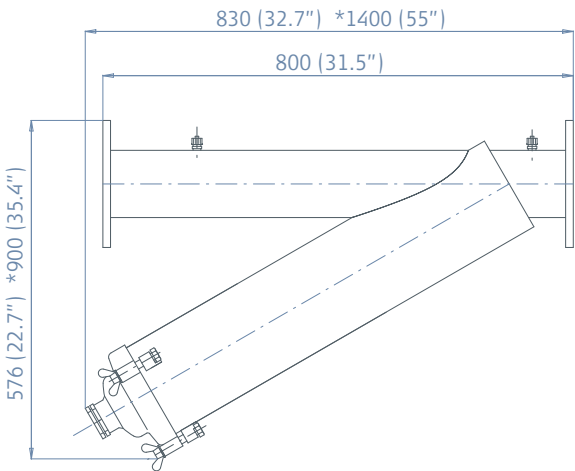
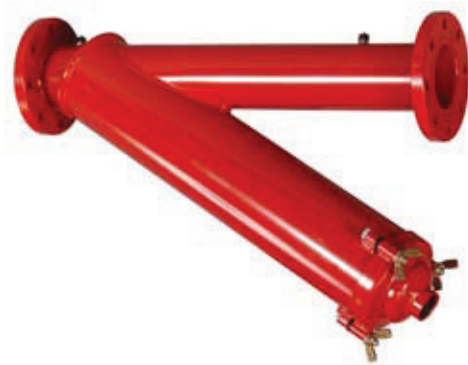
2" In-Line



3" In-Line

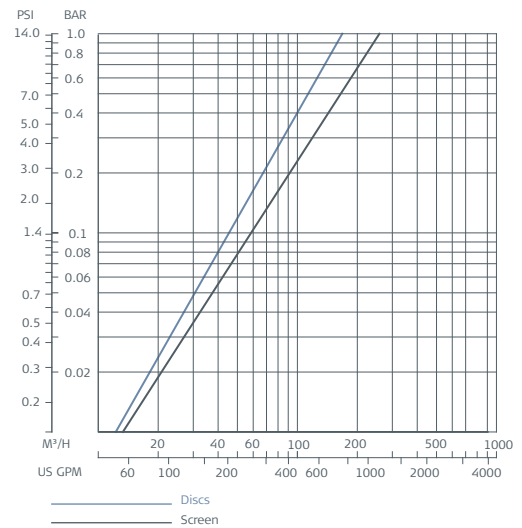
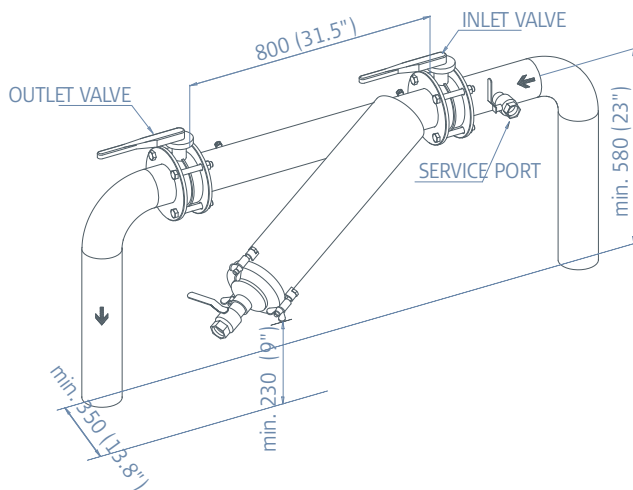
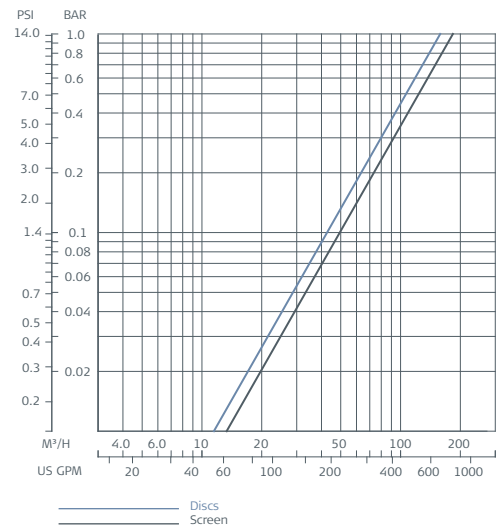
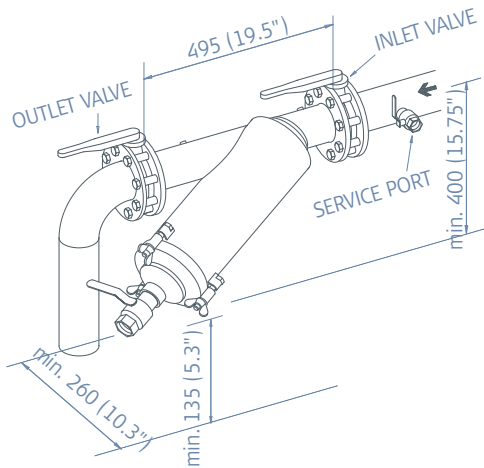
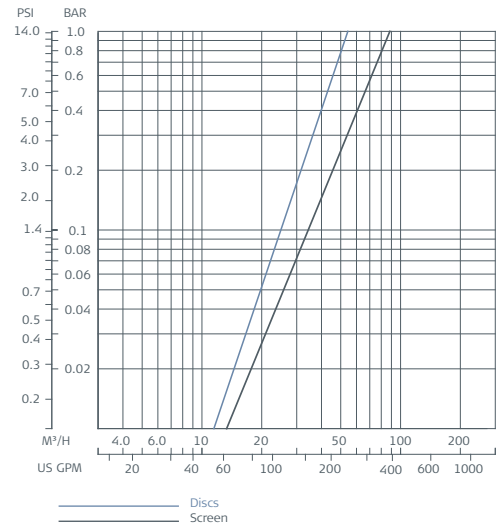
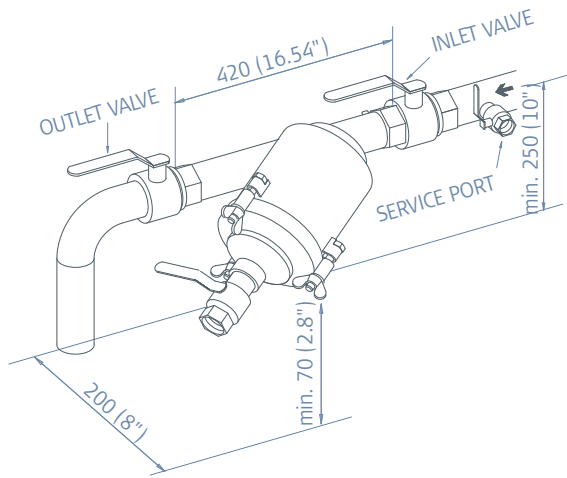


4"C In-Line

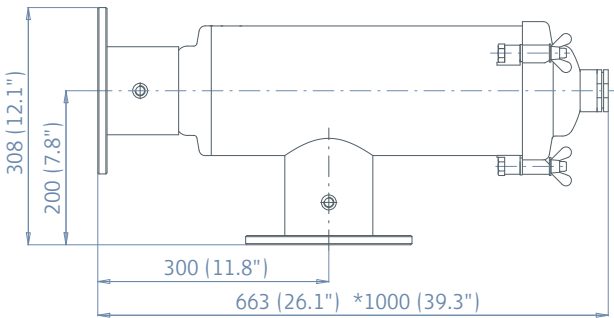


Dim. in mm (inch)  
\*Approx. length required for maintenance

## Pressure Loss Graphs



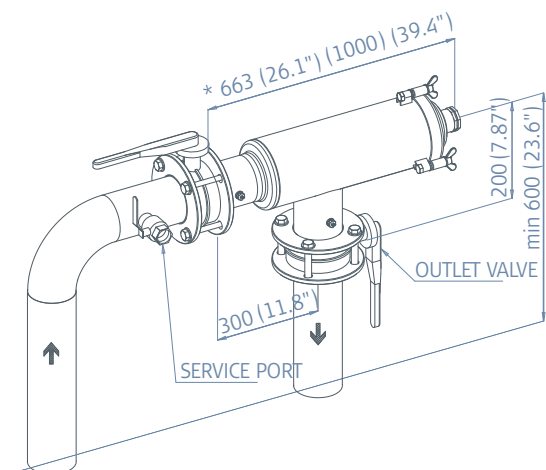
4”L filter



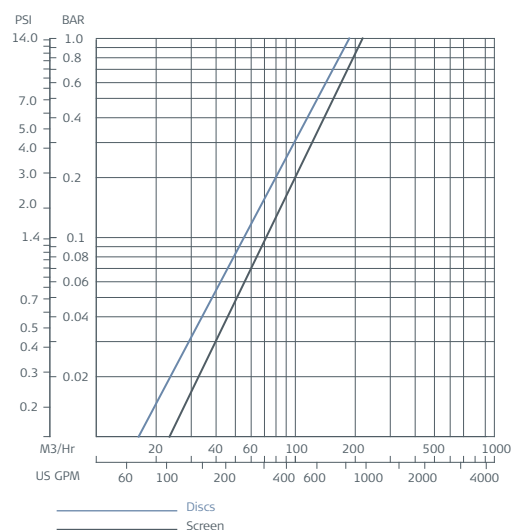
Technical Specifications

| Filter Type                                  | 2" In-Line   | 3" In-Line  | 4" C In-Line  | 4" L  |
|--|--|---|---|---|
| General Data                                 |  |   |   |   |
| Maximum flow rate*                           | 25 m³/h<br>(110 US gpm)  | 50 m³/h<br>(220 US gpm)                                 | 80 m³/h<br>(352 US gpm)                               | 80 m³/h<br>(352 US gpm)                           |
| Inlet/outlet diameter<br>flanges and threads | 2"<br>(50 mm)  | 3"<br>(80 mm)   | 4"<br>(100 mm)  | 4"<br>(100 mm)                                    |
| Standard filtration<br>degrees               | 3500, 2500, 1500, 800, 500, 300, 200, 180, 130, 100, 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)<br>Discs = 8.1 kg (17.8 lb)            | Screen = 13.6 kg (30 lb)<br>Discs = 15.2 kg (33.5 lb)   | N/A   | N/A   |
| Weight (empty) flanges                       | Screen = 10.5 kg (23 lb)<br>Discs = 11.3 kg (25 lb)            | Screen = 16.6 kg (36.6 lb)<br>Discs = 18.2 kg (40.1 lb) | Screen = 27.5 kg (60.6 lb)<br>Discs = 30 kg (66.1 lb) | Screen = 18 kg (39.7 lb)<br>Discs = 20 kg (44 lb) |

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



## Pressure Loss Graphs



Dim. In mm (inch)

\*Approx. length required for maintenance

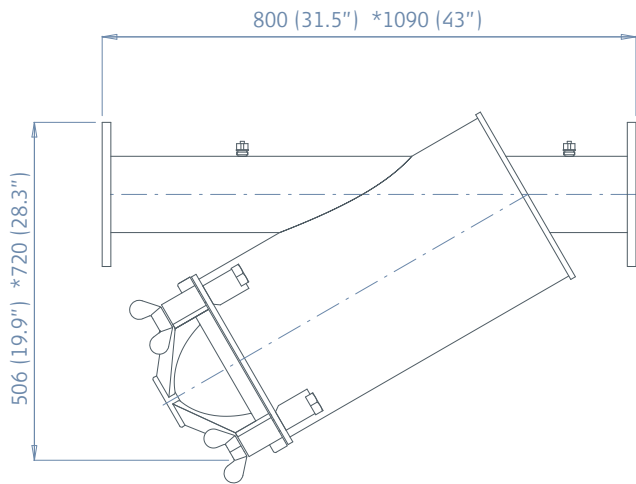
## Engineering Data

| Filter Type                | 2" In-Line   | 3" In-Line  | 4" C In-Line   | 4" L  |
|----------------------------|--|---|--|---|
| <b>Filter Element Data</b> |  |   |  |   |
| Filter area                | Weave Wire = 465 cm <sup>2</sup><br>(72 in <sup>2</sup> )<br>Screen = 700 cm <sup>2</sup> (108.5 in <sup>2</sup> )<br>Discs = 790 cm <sup>2</sup> (122.4 in <sup>2</sup> ) | Weave Wire = 930 cm <sup>2</sup><br>(144.1 in <sup>2</sup> )<br>Screen = 1430 cm <sup>2</sup> (221.6 in <sup>2</sup> )<br>Discs = 1700 cm <sup>2</sup> (263.5 in <sup>2</sup> ) | Weave Wire = 1850 cm <sup>2</sup><br>(286.7 in <sup>2</sup> )<br>Screen = 2175 cm <sup>2</sup> (337.1 in <sup>2</sup> )<br>Discs = 2600 cm <sup>2</sup> (403 in <sup>2</sup> ) | Weave Wire = 930 cm <sup>2</sup><br>(144.1 in <sup>2</sup> )<br>Screen = 1430 cm <sup>2</sup> (221.6 in <sup>2</sup> )<br>Discs = 1700 cm <sup>2</sup> (263.5 in <sup>2</sup> ) |
| Filter element types       | Weave Wire Screen, Disc Element, Perforated Screen, Molded Nylon Screen  |   |  |   |

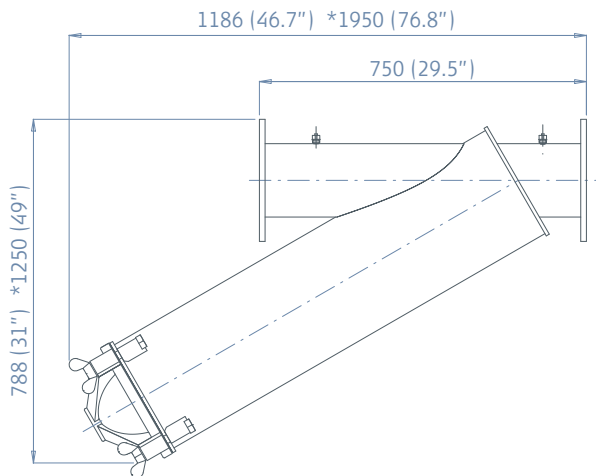
| <b>Construction Materials*</b> |   |
|--------------------------------|---|
| Filter housing                 | Phosphate pre-treated steel 37-2 with Polyester coating |
| Filter lid                     | Phosphate pre-treated steel 37-2 with Polyester coating |
| Seals                          | Nitril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

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

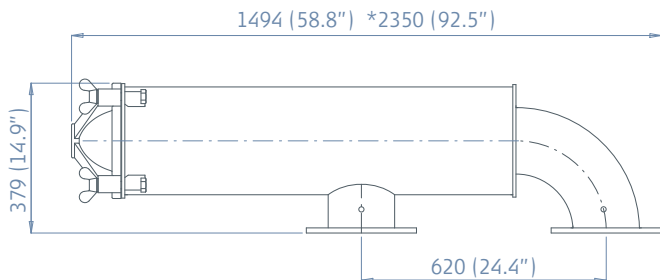
4" Super In-Line / 6"C In-Line



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

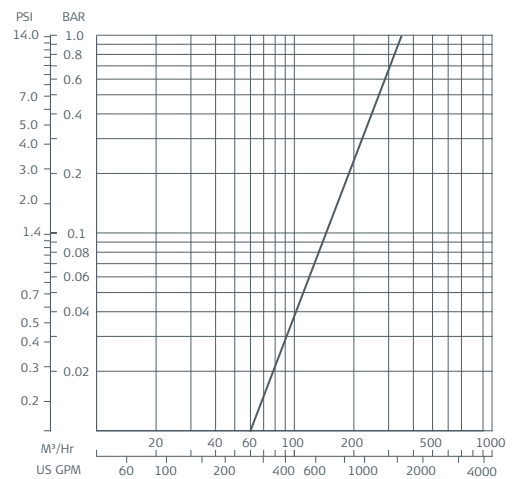
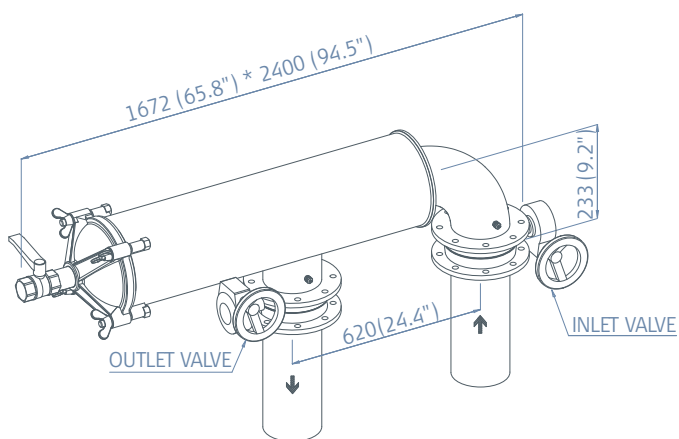
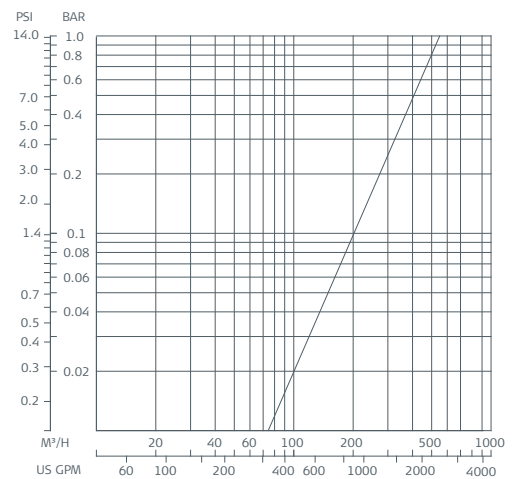
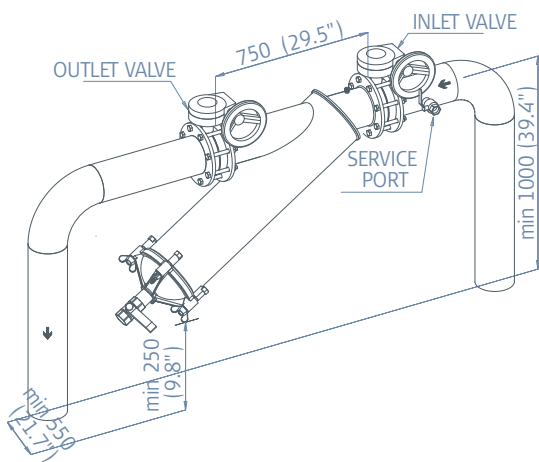
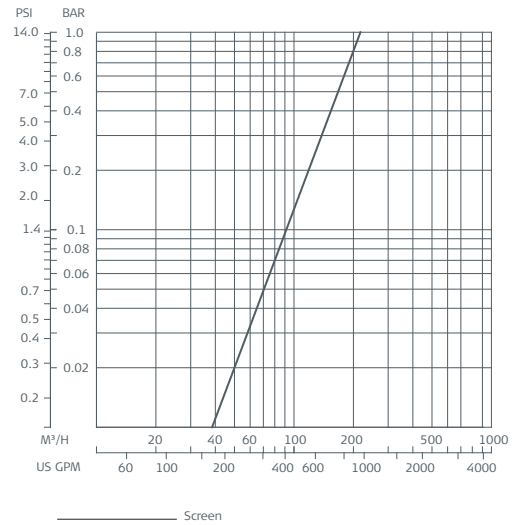
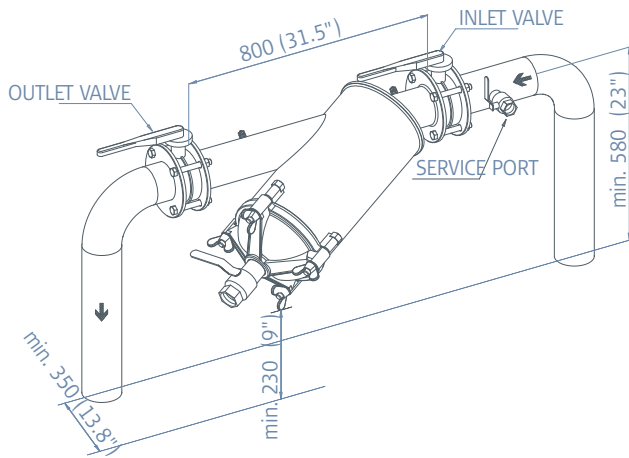


6" Super Modular / 8" Modular





## Pressure Loss Graphs



Dim. In mm (inch)

\*Approx. length required for maintenance

## Technical Specifications

| Filter Type                 | 4" Super In-Line  | 6"-C In-Line             | 6" Super In-Line         | 8" In-Line                |
|-----------------------------|---|--------------------------|--------------------------|---------------------------|
| General Data                |   |                          |                          |                           |
| Maximum flow rate*          | 100 m³/h<br>(352 US gpm)                                  | 160 m³/h<br>(704 US gpm) | 160 m³/h<br>(704 US gpm) | 300 m³/h<br>(1320 US gpm) |
| Inlet/Outlet diameter       | 4"<br>(100 mm)  | 6"<br>(150 mm)           | 6"<br>(150 mm)           | 8"<br>(200 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)              | 38 kg (83.7 lb)   | 43 kg (94.7 lb)          | 56 kg (123.4 lb)         | 65 kg (143.2 lb)          |

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

## Engineering Data

|              |                                      |                      |                      |                      |
|--------------|--------------------------------------|----------------------|----------------------|----------------------|
| Screen Data  |                                      |                      |                      |                      |
| Filter area  | 2740 cm² (424.7 in²)                 | 2740 cm² (424.7 in²) | 5720 cm² (886.6 in²) | 5720 cm² (886.6 in²) |
| 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                    |

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

## Technical Specifications

| Filter Type                 | 10" In-Line   | 12" In-Line                            | 14" In-Line                             |
|-----------------------------|---|--|---|
| <b>General Data</b>         |   |  |   |
| Maximum flow rate*          | 500 m <sup>3</sup> /h<br>(2200 US gpm)                    | 650 m <sup>3</sup> /h<br>(2861 US gpm) | 1000 m <sup>3</sup> /h<br>(4400 US gpm) |
| Inlet/Outlet diameter       | 10"<br>(250 mm)   | 12"<br>(300 mm)                        | 14"<br>(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 Timex for optimum flow depending on filtration degree & water quality.

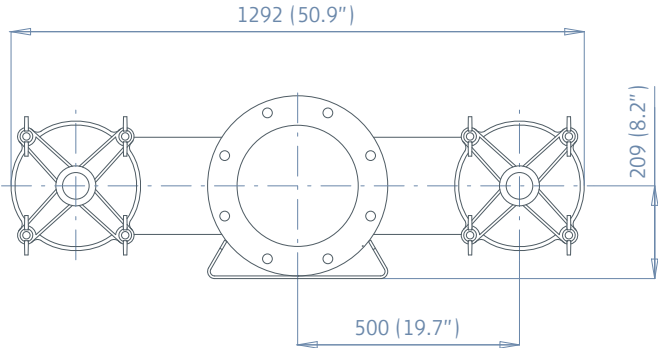
## Engineering Data

|                    |  |  |  |
|--------------------|--|--|--|
| <b>Screen Data</b> |  |  |  |
| Filter area        | 11,440 cm <sup>2</sup> (1773.2 in <sup>2</sup> ) | 17,260 cm <sup>2</sup> (2675.3 in <sup>2</sup> ) | 22,880 cm <sup>2</sup> (3546.4 in <sup>2</sup> ) |
| Screen types       | Weave Wire Screen, Perforated Screen             |  |  |

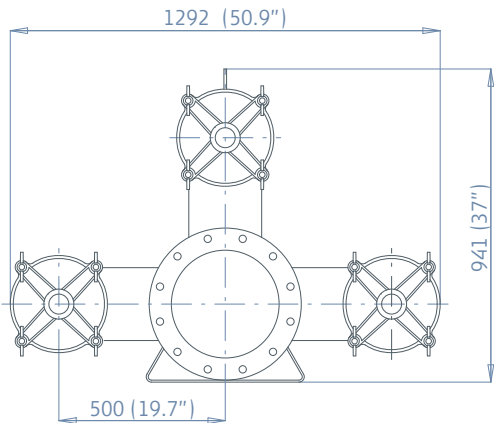
|                                |   |
|--------------------------------|---|
| <b>Construction Materials*</b> |   |
| Filter Housing                 | Phosphate pre-treated steel 37-2 with Polyester coating |
| Filter Lid                     | SMC Polyester   |
| Seals                          | Nitril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

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

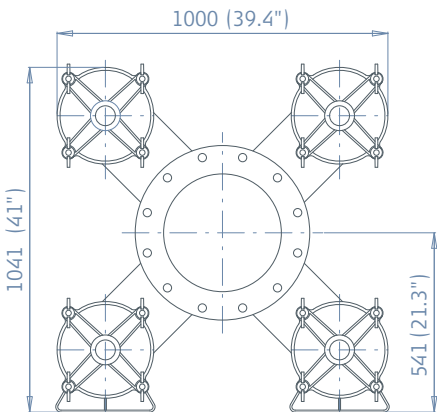
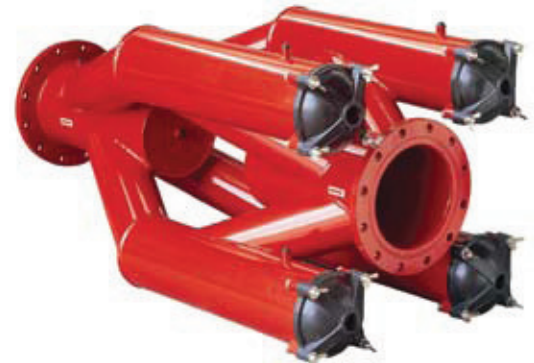
10" In-Line

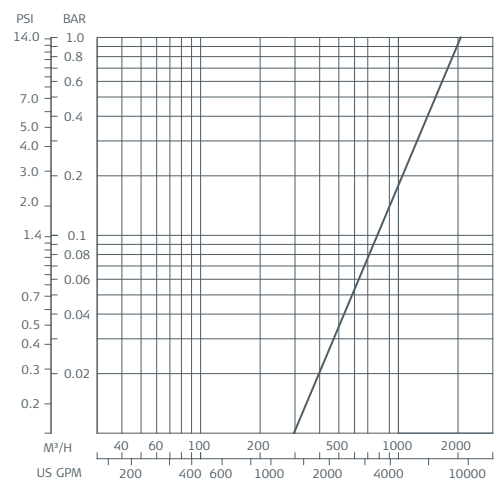
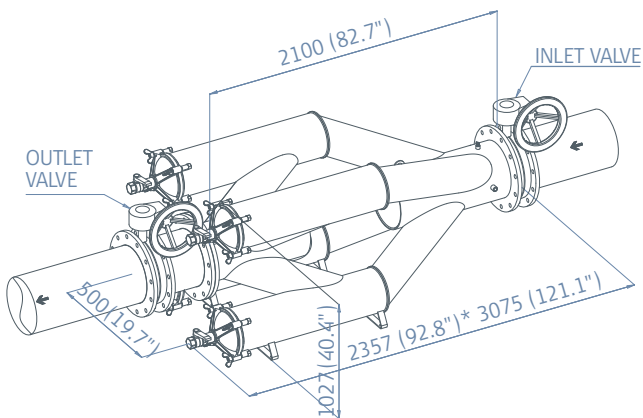
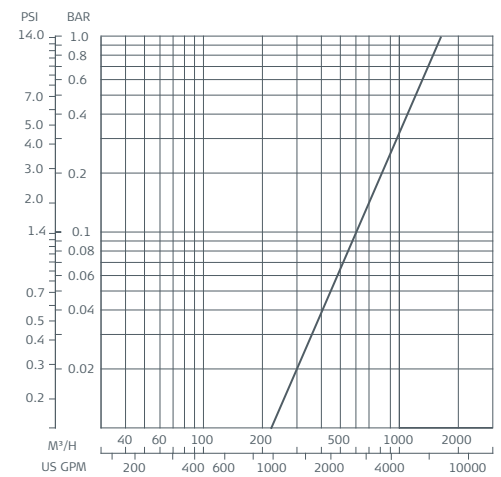
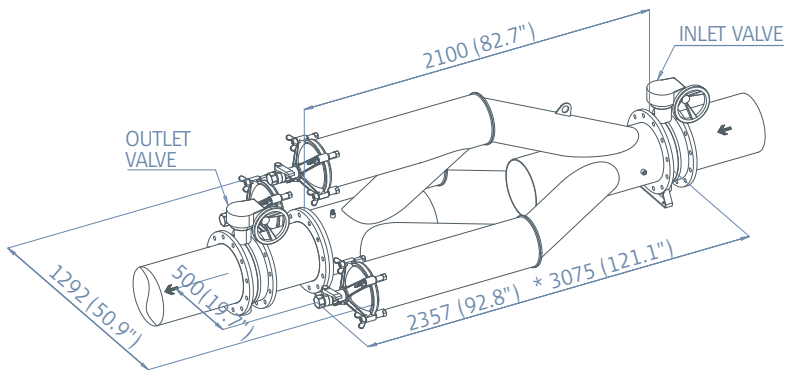
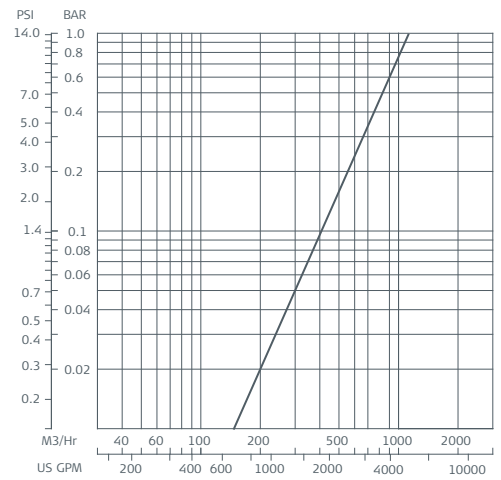
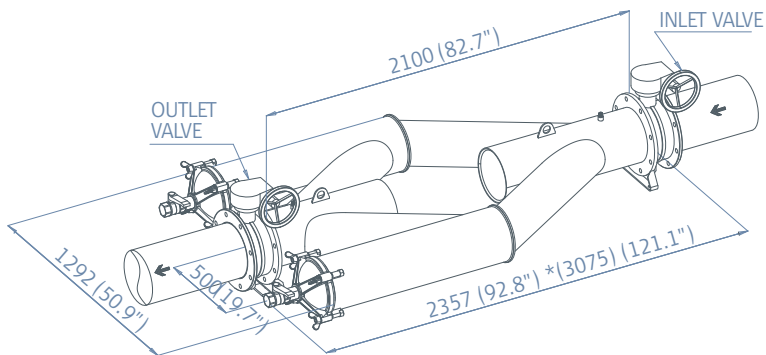


12" In-Line



14" In-Line





Dim. In mm (inch)

\*Approx. length required for maintenance



## industry

Automotive, Aviation, Ballast treatment,  
Electronics, Food & Beverage, Mining,  
Oil & Gas, Petrochemical, Power  
Generation, Pulp & Paper



## municipal

Potable Water, Waste Water,  
Desalination, Brackish Water, High rise  
buildings, Pre-filtration to Membranes



## irrigation

Agriculture, Golf & Turf,  
Aquaculture, Green Houses

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