

SCHEDULE OF CONCESSIONAL INSTRUMENTS

PART I - TARIFF CONCESSION ORDERS

Description of the particular goods including the applicable subheading of the Customs Tariff	Prescribed Item Last day of effect
8421.21.00 FILTER ELEMENTS, grooved discs or moulded plastic construction with polyester or moulded stainless steel screen Op. 01.12.95 - TC 9512934	50

Amiad filtration systems

FOI Document # 2

AMIAD: 30 Years of Filtration World Wide.

For over three decades Amiad has maintained a world wide reputation for its high quality, highly efficient, fluid filtration equipment. Amiad attributes its success to one single factor, its investment in research and development.

Over the years Amiad's research and development efforts has provided innovative filtration products using various types of media from sand and activated carbon to highly efficient, patented, self-clearing screens and disc elements. The use of these types of media provides Amiad with the broadest line of filtration products on the market today.

Amiad offers the most extensive line of filtration products in the world, including:

- 3/4" to 3" Corrosion-resistant plastic filters.
- 2" to 14" polyester / epoxy coated steel filters, with high flow capacities.
- 2" to 6" automatic self-cleaning hydraulically or electrically operated units.
- 8" to 14" heavy duty electrically operated automatic self-cleaning units, epoxy coated steel or stainless steel housings.
- Flushing controllers and flushing timers.
- Multiple options and accessories.

The self-cleaning automatic filters can be offered in system packages that are able to handle virtually any flow range. In addition, a wide range of filter elements is also offered from 3500 micron down to 25 micron.

Amiad filtration systems have provided the filtration solutions for virtually every type of water filtration requirement known today. Waste water treatment processes, steel mill slag water, power plant process and cooling water, paper mill process and intake water, chemical production processes, and irrigation systems to name just a few.

In the last few years, Amiad has become a worldwide center for filtration studies. Research and tests are conducted under the factory supervision and published around the world. And the guide line is always - finding the right filtration solution for a specific water filtration problem.

FILTRATION: "The process of removing solid particles from a liquid or gas by forcing them through a porous medium."

Different filtration technologies are designed to take care of the different sizes and types of suspended solids in liquid.

Reverse osmosis - Particles less than 0.001 micron.

Ultrafiltration - Particles between 0.001 and 0.03 micron.

Microfiltration - Particles between 0.03 and 5 micron.

Particulate filtration - Particles larger than 1 micron.

Particulate filtration is then divided into two areas:

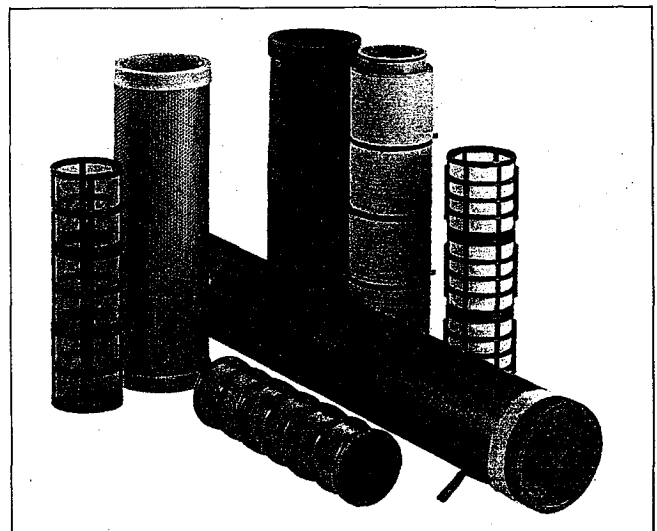
Micro particulates - Particles between 1 and 25 micron.

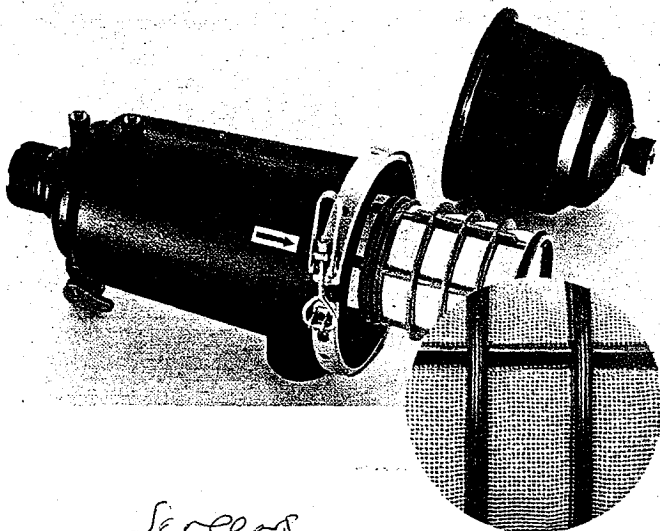
Macro particulates - Particles larger than 25 micron.

Amiad specializes in solving filtration requirements at the Macro level, concentrating in the area of particles suspended in water.

Filter elements:

A wide range of filter elements and filtration degrees are available for the different filters. This will allow optimum suitability for different solutions of filtration problems, taking into consideration the type, concentration and particle size of suspended solids, and in accordance with the filtration method.



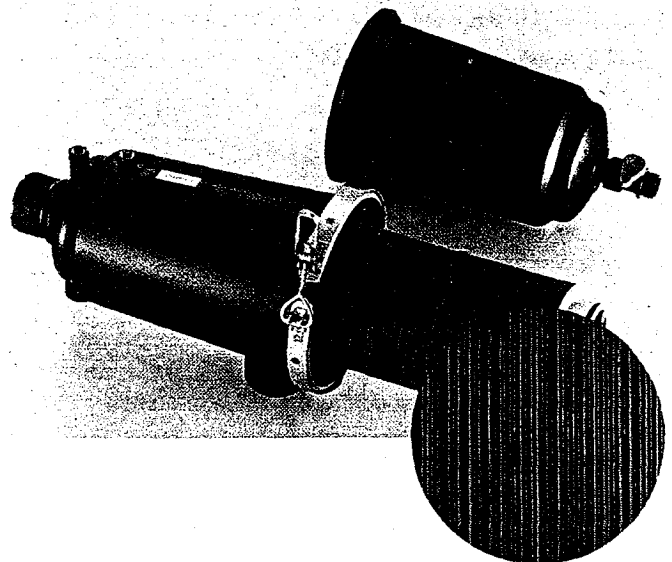


Screens

Screen Cylinders Elements

Screen elements are offered in a variety of configurations, depending on the type of filter body, application and degree of filtration desired.

- Moulded Plastic Construction with Polyester Screen. For 3/4"-3" Filters.
- Moulded Plastic Construction with Stainless Steel Screen. For 2"-3" Filters.
- Perforated Stainless Steel Screens - For coarse filtration. For 2"-14" Filters.
- Perforated Stainless Steel Screens with inserted Stainless Steel or Polyester Sleeve(s). For medium and fine filtration. 4"-14" Filters.
- Wedgewire screens: 800-200 micron. Used mainly in automatic filters. A very strong element, yet simple wiring design that allows perfect cleaning of self-cleaning operated filters.
- Weave Wire screens: 200-25 micron. Different weaving types inside a wedgewire construction, for automatic filters.



Grooved Discs Elements

These elements are made up of numerous thin plastic discs that are stacked onto a telescopic core. Both sides of the discs are grooved and the grooves cross each other when piled up and tightened together. The disc element provides in-depth filtration with a high capacity to retain organic matter.

The unique telescopic design also provides the means for ease of service and cleaning.

- For use with 1"-3" plastic filters and 2"-4" steel filters.

Selecting the right filter for you.

Amiad filters differ from each other both in inlet/outlet diameter, in filter area and in the options of filter element to be used. Moreover, there are variations in their hydraulic designs.

In selecting a filter appropriate to one's needs, the following factors should be taken into consideration:

1. The required filtration flow rate.
2. Water characteristics: quality, size and type of suspended solids.
3. The required degree of filtration.
4. The maximum allowable head-loss.
5. The hydraulic specifications of the water system into which the filter or filters are to be installed.
6. Whether automatic filtration is required.

In principle, a larger filter area is needed to cope with dirtier water and with a finer degree of filtration.

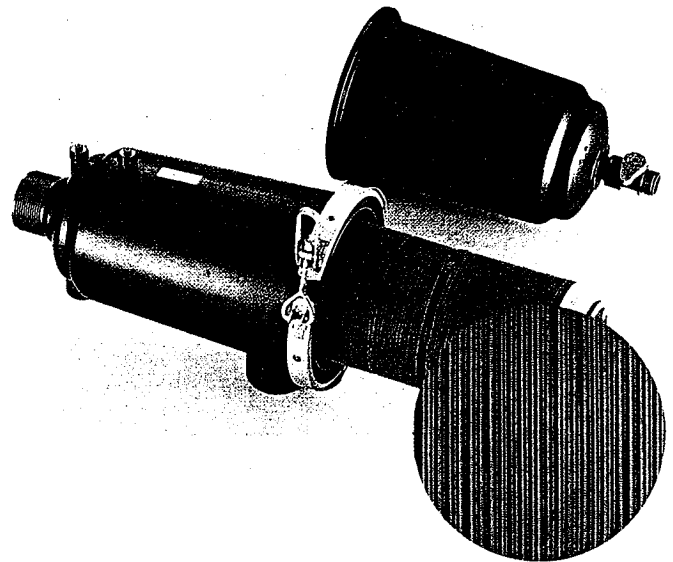
For specific assistance in choosing the optimum solution for your installation, you are invited to use the knowledge and experience accumulated in the past 30 years of filtration, at Amiad.

Grooved Discs Element

These elements consist of a stack of thin plastic discs which are piled together around a telescopic core. Both sides of the discs are grooved and the grooves cross each other when piled up and tightened together.

The disc element allows in-depth filtration and has high a capacity to retain particles. The flow in this element is out-in, therefore the filter has to be installed accordingly. The filtration is affected in two stages; the larger outer surface operates as a screen filter and collects the larger particles. The grooves inside the disc allow the adhesion of the fine particles, mainly organic matter.

The telescopic element can be cleaned easily. When opening the telescopic core the discs are released and can easily be rinsed under running water. Two O-ring seals allow perfect sealing of the element inside the filter housing.

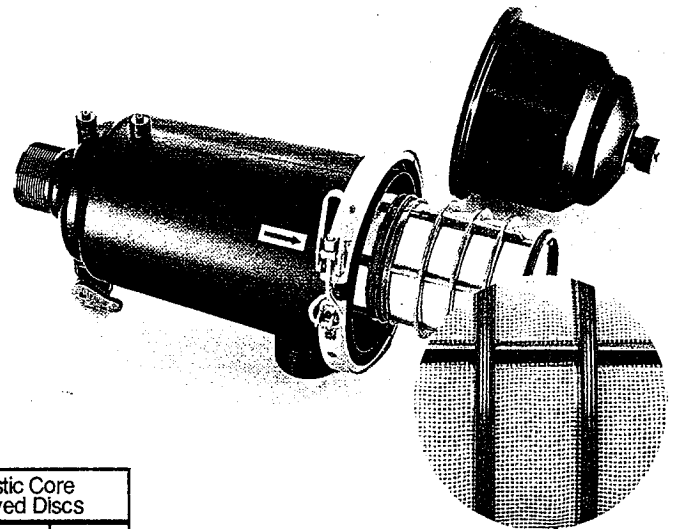


Moulded Screen Cylinders

These elements consist of moulded plastic screens with inserted mesh sleeves made of polyester, with different filtration degrees (see below). The direction of flow in these elements is from inside out along the element. Therefore inorganic-suspended solids are accumulated mainly at the lower end of the element, where they can be removed by means of a drain valve.

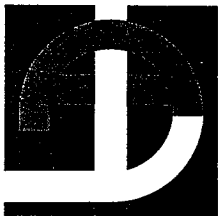
These elements are specially suitable for the separation of inorganic particles and have a very low pressure loss. Suitable for a wide range of applications. The different filtration degrees are colour-coded.

The cylinder incorporates two O-rings to ensure perfect sealing inside the filter housing.



Standard Filtration Degrees

Element	Moulded Plastic Construction with Polyester or Moulded St. St. Screen					Moulded Plastic Core with 3D Grooved Discs			
	Blue	White	Red	Yellow	Black	Brown	Purple	Red	Yellow
Micron	300	200	130	100	80	250	180	130	100
MM	0.3	0.2	0.13	0.10	0.08	0.25	0.18	0.13	0.10
Mesh	50	75	120	155	200	60	80	120	155



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