

# RESIDENTIAL FILTRATION



|            |                                       |            |                                                |
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|            |                                 |
|------------|---------------------------------|
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# FILTER SELECTION GUIDE

## HOW DO YOU SELECT THE FILTER THAT YOU NEED?

A key factor in cleaning pool water is its passage through the filter. This process works in a fully closed circuit. The quality and type of filter are therefore two decisive aspects so that when the water circulates through the system it comes out completely clear.

A filter should be selected based on the following criteria:

**1. Type of filter medium.** This is a basic decision for setting the level of water clarity, characteristics of use and maintenance.

**2. Tank manufacture technology.**

This directly affects its resistance, durability and quality of finish.

**3. Flow rate** (m<sup>3</sup>/h). Set according to the volume and recirculation time of each pool. Ensure that this matches the recommended flow rate when selecting the pump.

**4. Features and added extras.**

Remember to always check the space available in your facility to both access and run the filter once selected.



Aster Filter

### THERE ARE 3 MAIN TYPES OF FILTER

#### DIATOMACEOUS EARTH FILTERS

Filtration method that delivers maximum filtration fineness. However, this system requires more time for maintenance.

- Excellent filtration quality
- Compact solution
- Expert installation and maintenance

#### CARTRIDGE FILTERS

One or more cartridges are used to deliver a high level of filtration fineness. This is also the ideal solution when there are restrictions on space, water consumption and water for filter backwashing.

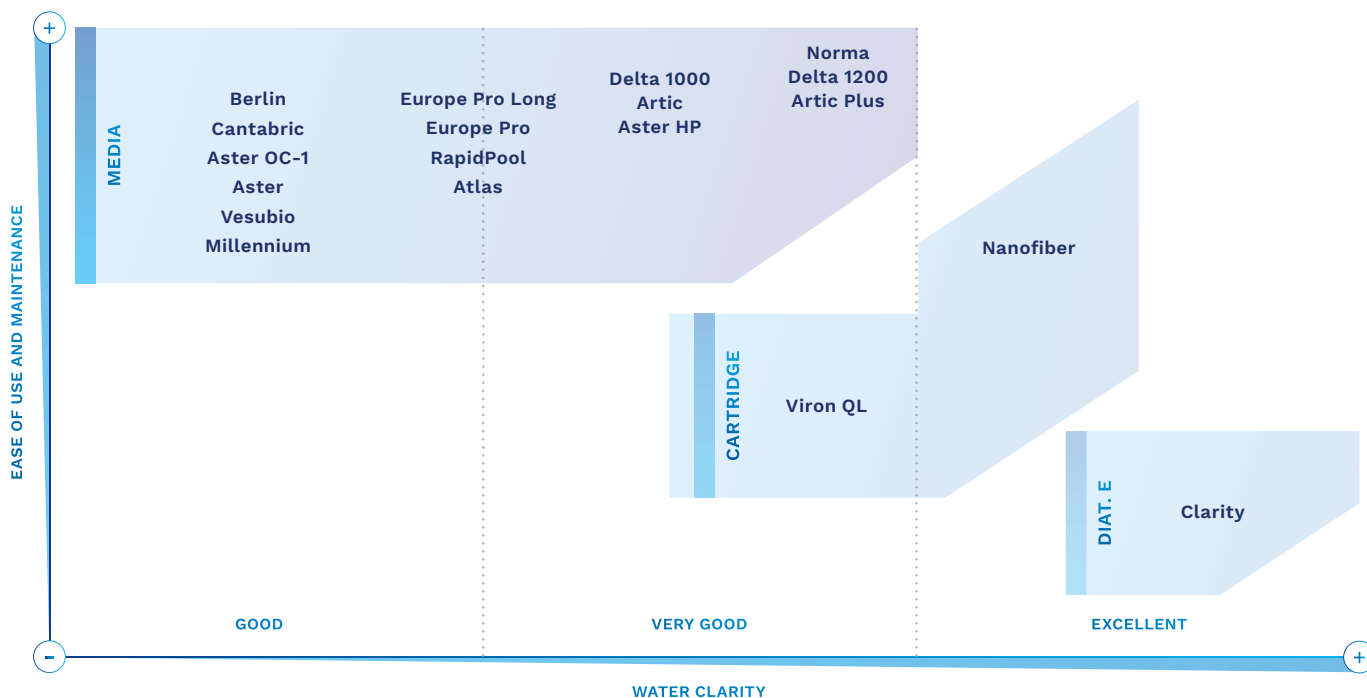
- Very good filtration quality
- Low water consumption
- Compact solution

#### MEDIA FILTERS

Commonly called **sand filters**, as this is the most widely used filter medium in this type of filter. Other media can be used, such as glass and anthracite, which optimize their performance.

To obtain maximum filtration quality and performance, use filters with the highest filter bed, several layers of filter media and a low filtration speed.

- Robust technology with a great capacity for recovering unkempt water
- Easy to use and maintain
- Value for money



# FILTER FEATURES AND SELECTION

| FILTER               |                                                                                     | TANK                    |                                | PRODUCT FEATURES |          |                    |             |                      |       |                                                                                                                                                |
|----------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------|------------------|----------|--------------------|-------------|----------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                                     | Material and technology | Rob. & durab.*                 | Flow m³/h        | Diameter | Filtration quality | Connections | Warranty (t/c)**     | Other |                                                                                                                                                |
| DIAT. E<br>CARTRIDGE |    | Clarity                 | Polyester + FG Laminated       | 5                | 11-27    | 610                | 5           | 1½"-2" Lateral       | 2/2   | Excellent filtration quality. Durability and reliability of body and components.                                                               |
|                      |    | Nanofiber               | Injection-molded thermoplastic | 3                | 10-18    | 402                | 5           | 2" Lateral           | 5/2   | Single nanofiber cartridge filter and excellent filtration quality. Manual and automatic backwash using the multiport valve.                   |
|                      |    | Iron QL                 | Injection-molded thermoplastic | 3                | < 30     | 690                | 4           | D50                  | 5/2   | Multi-cartridge filter. Long period between each cleaning of cartridges.                                                                       |
| BED OF MEDIA         |    | Cantabric               | Injection-molded thermoplastic | 4                | 6-30     | 400-900            | 2           | 1½"-2½" Lateral/ Top | 10/2  | A flagship in filtration for residential pools. High quality and design for good performance over time.                                        |
|                      |    | Berlin                  | Polyester + FG Bobbin-wound    | 6                | 9-56     | 500-1,200          | 2           | 1½"-D90 Lateral      | 2/2   | Extraordinary reliability and durability due to its dual-layer body. Large cover in diameter to facilitate access.                             |
|                      |    | Norma                   | Polyester + FG Laminated       | 5                | 10-34    | 650-1,200          | 4           | D75-D140 Lateral     | 2/2   | High performance in residential pools. Filter bed height of 1.2 m. Wide range of added extras and accessories.                                 |
|                      |    | Delta 1200              | Polyester + FG Laminated       | 5                | 13-45    | 650-1,200          | 4           | 1½"-D90 Lateral      | 2/2   | High performance in residential pools. Filter bed height of 1.2 m. Wide range of added extras and accessories.                                 |
|                      |   | Artic Plus              | Polyester + FG Laminated       | 5                | 16-56    | 650-1,200          | 4           | 1½"-4" Lateral       | 2/2   | High performance in residential pools. Filter bed height of 1.2 m. Wide range of added extras and accessories.                                 |
|                      |  | Delta 1000              | Polyester + FG Laminated       | 5                | 8-45     | 500-1,200          | 4           | 1½"-D90 Lateral      | 2/2   | High performance in residential pools. Filter bed height of 1.0m. Wide range of added extras and accessories.                                  |
|                      |  | Artic                   | Polyester + FG Laminated       | 5                | 9-56     | 500-1,200          | 4           | 1½"-4" Lateral       | 2/2   | High performance in residential pools. Filter bed height of 1.0m. Wide range of added extras and accessories.                                  |
|                      |  | Aster HP                | Polyester + FG Laminated       | 5                | 9-31     | 500-900            | 4           | 1½"-2½" Lateral      | 2/2   | Filter bed height of 0.8 m in all models with collector arms. Filter bed height of 0.6m in all models with nozzle plates.                      |
|                      |  | Atlas                   | Polyester + FG Laminated       | 6                | 9-30     | 500-900            | 3           | 1½"-2½" Lateral      | 10/2  | Top quality and features in its category. Filter designed for the most exacting professionals.                                                 |
|                      |  | Europe Pro Long         | Polyester + FG Laminated       | 5                | 9-30     | 500-900            | 3           | 1½"-2½" Lateral      | 2/2   | Easy to access thanks to its large cover in diameter. Transparent or polyester cover as options.                                               |
|                      |  | Europe Pro              | Polyester + FG Laminated       | 5                | 9-30     | 500-900            | 3           | 1½"-2½" Lateral      | 2/2   | Easy to access thanks to its large cover in diameter. Transparent or polyester cover as options.                                               |
|                      |  | RapidPool               | Polyester + FG Laminated       | 5                | 6-24     | 400-800            | 5           | 1½"-2" Lateral       | 2/2   | Rapid access cover. No need for tools to access inside.                                                                                        |
|                      |  | Aster                   | Polyester + FG Laminated       | 5                | 5-31     | 350-900            | 2           | 1½"-2½" Lateral/ Top | 2/2   | A classic in AstralPool's filtration with the widest range of choices. Robustness, user friendliness and reliability all in one.               |
|                      |  | Aster OC-1              | Polyester + FG Laminated       | 5                | 8-32     | 450-900            | 2           | 1½"-2½" Lateral      | 2/2   | Filter specially designed for the cutting-edge medium, OC-1. Saves energy, water and time spent on maintenance.                                |
|                      |  | Vesubio                 | Polyester + FG Laminated       | 5                | 8-32     | 450-900            | 2           | 1½"-2½" Lateral/ Top | 2/2   | Excellent value for money in its category. A laminated filter suitable for any size of pool.                                                   |
|                      |  | Millennium              | Blow-molded thermoplastic      | 2                | 6-17     | 380-660            | 2           | 1½" Lateral/ Top     | 2/2   | Magnificent finish and resistance in the category of blow-molded filters. Cover all your filtration requirements with the Millennium monobloc. |

- All media filters in this table can work equally with sand or glass, except for the Aster OC-1 range.
- Performance based on internal tests and comparisons.

- \* Robustness and durability
- \*\* Warranty for tank / components


 Complies with Standard  
EN 16713-01

## DIATOMACEOUS FILTERS

## Clarity filter

**ASTRALPOOL**

### DESCRIPTION

Made in polyester and fibreglass. Supplied with pressure gauge, air vent and side mounted multiport valve.  
Filtration velocity 4.9 m<sup>3</sup>/h/m<sup>2</sup>.

|                                  | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Filters Ø 600 mm</b>          |       |               |                       |                                   |
| 11000 l/h Outlet 1½" Model DE-24 | 11619 | 1             | 34.0                  | 0.410                             |
| 16400 l/h Outlet 1½" Model DE-36 | 11620 | 1             | 39.0                  | 0.460                             |
| 21800 l/h Outlet 2" Model DE-48  | 11621 | 1             | 44.0                  | 0.550                             |
| 27300 l/h Outlet 2" Model DE-60  | 11622 | 1             | 48.0                  | 0.610                             |



## Multiport valve for Clarity filter

**ASTRALPOOL**

### DESCRIPTION

This valve is valid only for the diatomaceous earth filter "Clarity".

|                                                            | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------------------------------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Multiport valve with filter connections (config. 2)</b> |       |               |                       |                                   |
| For D.E. filter 1½"                                        | 15385 | 6             | 15.5                  | 0.079                             |
| For D.E. filter 2"                                         | 15389 | 6             | 22.7                  | 0.158                             |



## Diatomaceous earth

**ASTRALPOOL**

### DESCRIPTION

|                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------|-------|---------------|-----------------------|-----------------------------------|
| Celatom FW-60. 20 Kgs bag | 03247 | 1             | 20                    | 0.60                              |
| Celite 545. 23 Kgs bag    | 03246 | 1             | 23                    | 0.60                              |

# Nanofiber filter

## DESCRIPTION

Filter for residential pools up to 90m<sup>3</sup> characterised by its high-quality filtration: 5-8 microns, self-cleaning function, small size. The NanoFiber filter uses an innovative material that delivers better quality filtration due to its network of nanofibers.

- Easy to use
- Reliable
- Lower water consumption
- Higher water filtration quality
- Compact
- Easy to clean
- Dirt slow to build up without limescale
- Compatible with current filter systems on the market
- Replacement filtration media



Complies with Standard  
EN 16713-01



Auto versions can be connected to a 07444 manual valve, or a 70769 automatic valve

|                                                  | Code       | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------------------------------------|------------|---------------|-----------------------|-----------------------------------|
| NanoFiber Auto 150 filter (10 m <sup>3</sup> /h) | 67355-0100 | 1             | 10.68                 | 0.116                             |
| NanoFiber Auto 180 filter (14 m <sup>3</sup> /h) | 67356-0100 | 1             | 10.68                 | 0.116                             |
| NanoFiber Auto 200 filter (18 m <sup>3</sup> /h) | 67357-0100 | 1             | 10.68                 | 0.116                             |
| Auto adaptor kit                                 | 67509      | 1             | 3.68                  | 0.027                             |
| NanoFiber 150 filter (10 m <sup>3</sup> /h)      | 64837-0100 | 1             | 9.68                  | 0.093                             |
| NanoFiber 180 filter (14 m <sup>3</sup> /h)      | 64838-0100 | 1             | 9.68                  | 0.093                             |
| NanoFiber 200 filter (18 m <sup>3</sup> /h)      | 64839-0100 | 1             | 9.68                  | 0.093                             |
| <b>Replacement filtration media</b>              |            |               |                       |                                   |
| For Nanofiber 150                                | 65383      | 1             | 1.58                  | 0.022                             |
| For Nanofiber 180                                | 65384      | 1             | 1.58                  | 0.022                             |
| For Nanofiber 200                                | 65385      | 1             | 1.58                  | 0.022                             |

## TECHNICAL FEATURES

| Model         | Filtration surface area (m <sup>2</sup> ) | Flow rate (m <sup>3</sup> /h) | Max. pool volume (m <sup>3</sup> ) |
|---------------|-------------------------------------------|-------------------------------|------------------------------------|
| NanoFiber 150 | 4,5                                       | 10                            | 70                                 |
| NanoFiber 180 | 5,2                                       | 14                            | 80                                 |
| NanoFiber 200 | 6,0                                       | 18                            | 90                                 |

Handles  
Easier to open and transport

Flow rate range  
From 10 to 18 m<sup>3</sup>/h

Maximum temperature  
40°C

Connections  
2"

Pressure gauge  
Max. pressure 2.5 bar

Tinted plastic  
easy to check the level of dirt in the water

Filtration quality  
Up to 5-8 microns (μ)

Functions:  
Filtration and backwashing

# Viron cartridge filter



Complies with Standard  
EN 16713-01

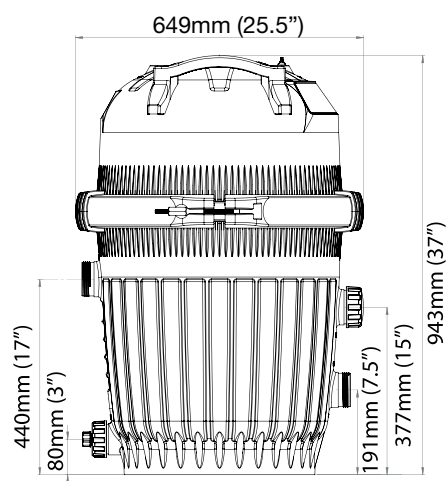
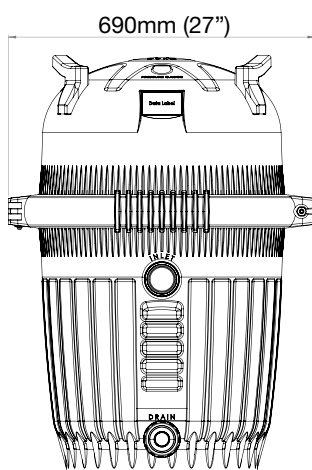
## DESCRIPTION

- Manufactured in injection-moulded plastic and suitable for high-pressure applications.
- Easy-access closing system, filtration surfaces of 39m<sup>2</sup> or 50m<sup>2</sup> enabling prolonged intervals between each cleaning operation or cartridge replacement.
- Includes water purge, oil pressure gauge and connection accessories.
- 5-year guarantee on the tank.
- Complies with filtration requirements as per standard EN 16713-1.

|                                                                 | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Viron QL 420 cartridge filter                                   | 76340 | 1             | 48                    | 0.252                             |
| Viron QL 540 cartridge filter                                   | 76341 | 1             | 50                    | 0.355                             |
| Filter element -105 SQM.<br>Replacement for 76340 (QL 420). 4un | 74544 | -             | -                     | -                                 |
| Filter element -135 SQM.<br>Replacement for 76341 (QL 540). 4un | 74545 | -             | -                     | -                                 |

## TECHNICAL FEATURES

| Model        | Filtration area   | Maximum flow rate | Weight | Height |
|--------------|-------------------|-------------------|--------|--------|
| Viron QL 420 | 39 m <sup>2</sup> | 500 lpm           | 35 kg  | 943 mm |
| Viron QL 540 | 50 m <sup>2</sup> | 500 lpm           | 40 kg  | 943 mm |



# Hydrospin & Hydrospin Compact

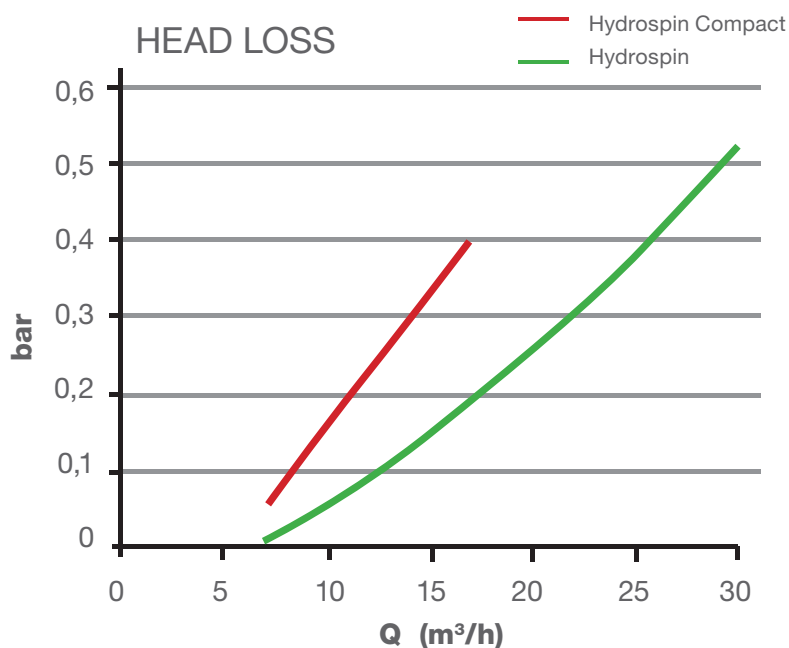
## DESCRIPTION

- Hydrocyclone pre-filters can be fitted to filtration systems in both new and old installations.
- Hydrospin is able to treat flows up to 30 m<sup>3</sup>/h with a maximum working pressure of 2.5 bars.
- It is fitted between the pump and the filter and separates out solids of up to 40 micra.
- Saves water reducing by half the amount of water consumed for cleaning the filtration system.
- Easy to use, it can be cleaned using just five liters of water without having to stop the pump.

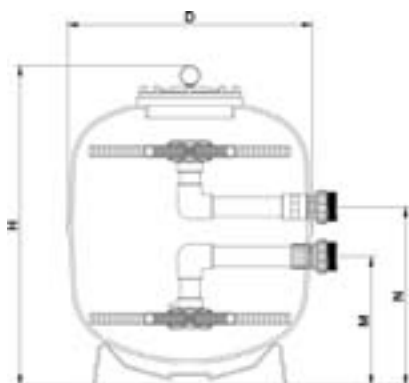
|                                      | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Hydrospin                            | 45289 | 1             | 7.8                   | 0.088                             |
| Hydrospin Compact                    | 53743 | 1             | 4.0                   | 0.033                             |
| Kit for wall installation, for 45289 | 47158 | 4             | 4.2                   | 0.117                             |

## TECHNICAL FEATURES

|                                    | 45289           | 53743           |
|------------------------------------|-----------------|-----------------|
| Working pressure (bar)             | 2,5             | 2,5             |
| Connections                        | Ø 63            | Ø 50 thread 2¼" |
| Purge connection                   | 1"              | ¾"              |
| Min. flow rate (m <sup>3</sup> /h) | 5               | 3               |
| Max. flow rate (m <sup>3</sup> /h) | 30              | 16.5            |
| Water for cleaning (l)             | 5               | 15              |
| Separate solids (micron)           | 40              | 60              |
| Floor support                      | Included        |                 |
| Wall support                       | Accessory 47158 | Included        |



# Aster OC-1 filter


 Complies with Standard  
EN 16713-01


## DESCRIPTION

White laminated polyester and fibreglass filter. Internal parts with special sides for OC-1 media. Filter for side selector valve. ¼" air and water purge. Transparent lid with screws. Maximum temperature: 50°C Maximum pressure 2.5 bar. Maximum filtration speed 50m³/h/m². Filter for OC-1 filtration media. Not compatible with sand, glass or other filter loads.

|                                  | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|----------------------------------|-------|---------------|-----------------------|-----------------------|
| <b>With multiport side valve</b> |       |               |                       |                       |
| OC-1 Aster filter 450            | 68642 | 1             | 21                    | 0.23                  |
| OC-1 Aster filter 500            | 68643 | 1             | 23                    | 0.28                  |
| OC-1 Aster filter 600            | 68644 | 1             | 28                    | 0.39                  |
| OC-1 Aster filter 650            | 68645 | 1             | 29                    | 0.45                  |
| OC-1 Aster filter 750            | 68646 | 1             | 37                    | 0.62                  |
| OC-1 Aster filter 900-2"         | 68647 | 1             | 55                    | 1.27                  |
| <b>Without multiport valve</b>   |       |               |                       |                       |
| OC-1 Aster filter 900-2½"        | 68648 | 1             | 55                    | 1.27                  |

## TECHNICAL FEATURES

|                           | 68642 | 68643 | 68644 | 68645 | 68646 | 68647 | 68648 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Ø D (mm)                  | 450   | 500   | 600   | 650   | 750   | 900   | 900   |
| H (mm)                    | 845   | 855   | 900   | 955   | 1035  | 1100  | 1100  |
| M (mm)                    | 305   | 290   | 330   | 370   | 325   | 365   | 390   |
| N (mm)                    | 430   | 415   | 455   | 495   | 555   | 635   | 660   |
| Connections               | 1½"   | 1½"   | 1½"   | 1½"   | 2"    | 2"    | 2½"   |
| Flow (m³/h) at 50 m³/h/m² | 8     | 10    | 14    | 17    | 22    | 32    | 32    |
| Maximum pressure (kg/cm²) | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| Pool volume (m³)          | 64    | 72    | 112   | 120   | 168   | 240   | 240   |
| Filtration surface (m²)   | 0.159 | 0.196 | 0.283 | 0.332 | 0.442 | 0.636 | 0.636 |
| OC-1 volume (L)           | 44    | 59    | 78    | 125   | 181   | 313   | 313   |
| OC-1 (kg)                 | 9     | 12    | 16    | 25    | 36    | 63    | 63    |
| Net weight (kg)           | 18    | 20    | 25    | 26    | 33    | 50    | 50    |

# OC-1

## THE FUTURE OF SWIMMING POOL FILTRATION

### SAVE TIME

Reduce your cleaning frequency to one third of traditional media.

### SAVE WATER

Unique filtration method reduces water consumption by up to 70%.

### WATER QUALITY

Consistent filtration and water quality because of stable flow.

### SAVE POWER

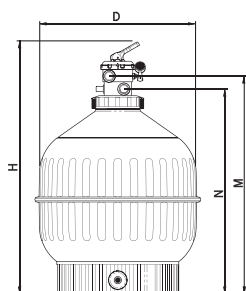
Great reduction in filter's head loss makes it possible to use smaller pumps or reduce power.

Tested by

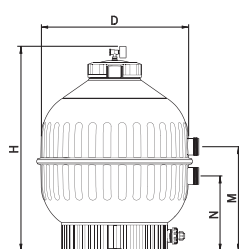
**ASTRALPOOL**

**OC-1**  
FILTRATION MEDIA

Optional:  
Standard American sizes



Complies with Standard  
EN 16713-01



- Injection-moulded filter in technical plastics.
- Ivory. Thermal-welded joining of top and bottom filter parts.
- Fitted with a pressure gauge and manual water and air purge valves.
- Selector valve included.
- Maximum filtration speed (50 m<sup>3</sup>/h/m<sup>2</sup>).
- Maximum working pressure: 2.5 kg/cm<sup>2</sup>.
- Sand and glass compatible (see page 189).
- Complies with filtration requirements as per standard EN 16713-1.

## Cantabric top filter

**ASTRALPOOL**

### DESCRIPTION

Top mounted multiport valve. Threaded filter locking ring in ABS.

|                               | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-------------------------------|-------|---------------|-----------------------|-----------------------------------|
| 6000 l/h Ø 400 mm outlet 1½"  | 22399 | 1             | 10.7                  | 0.23                              |
| 9000 l/h Ø 500 mm outlet 1½"  | 15780 | 1             | 17.5                  | 0.37                              |
| 14000 l/h Ø 600 mm outlet 1½" | 15781 | 1             | 19.9                  | 0.49                              |
| 21000 l/h Ø 750 mm outlet 1½" | 20128 | 1             | 30.4                  | 0.83                              |
| 21000 l/h Ø 750 mm outlet 2"  | 23866 | 1             | 32.1                  | 0.83                              |

## Side mounted Cantabric filter

**ASTRALPOOL**

### DESCRIPTION

Clear lid & threaded locking ring in ABS, supplied with side mounted multiport valve.

|                                  | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>With multiport side valve</b> |       |               |                       |                                   |
| 6,000 l/h Ø 400 mm outlet 1½"    | 22398 | 1             | 9.0                   | 0.15                              |
| 9,000 l/h Ø 500 mm outlet 1½"    | 15782 | 1             | 15.8                  | 0.29                              |
| 14,000 l/h Ø 600 mm outlet 1½"   | 15783 | 1             | 17.8                  | 0.40                              |
| 21,000 l/h Ø 750 mm outlet 2"    | 15784 | 1             | 29.0                  | 0.67                              |
| <b>Without multiport valve</b>   |       |               |                       |                                   |
| 30,000 l/h Ø 900 mm outlet 2½"   | 22402 | 1             | 49.0                  | 1.30                              |

### TECHNICAL FEATURES

|                                                  | Top mounted |       |       |       |       | Side mounted |       |       |       |       |
|--------------------------------------------------|-------------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|
|                                                  | 22399       | 15780 | 15781 | 20128 | 23866 | 22398        | 15782 | 15783 | 15784 | 22402 |
| Ø D (mm)                                         | 400         | 500   | 600   | 750   | 750   | 400          | 500   | 600   | 750   | 900   |
| H (mm)                                           | 894         | 1009  | 1069  | 1239  | 1250  | 715          | 800   | 875   | 1045  | 1215  |
| M (mm)                                           | 744         | 829   | 894   | 1064  | 1098  | 380          | 415   | 445   | 575   | 675   |
| N (mm)                                           | 680         | 765   | 830   | 1000  | 1023  | 255          | 290   | 320   | 345   | 405   |
| Connections                                      | 1½"         | 1½"   | 1½"   | 1½"   | 2"    | 1½"          | 1½"   | 1½"   | 2"    | 2½"   |
| Flow rate (m <sup>3</sup> /h)                    | 6           | 9     | 14    | 21    | 21    | 6            | 9     | 14    | 21    | 30    |
| Approx. pool volume (m <sup>3</sup> ) (8 hours)* | 48          | 72    | 112   | 168   | 168   | 48           | 72    | 112   | 168   | 240   |
| Sand load (kg)                                   | 60          | 100   | 150   | 300   | 300   | 60           | 100   | 150   | 300   | 550   |
| Grade 1 glass load (57011) (kg)                  | 50          | 88    | 100   | 200   | 200   | 50           | 88    | 100   | 200   | 375   |
| Grade 3 glass load (57013) (kg)                  | 0           | 0     | 25    | 50    | 50    | 0            | 0     | 25    | 50    | 100   |
| Net weight (kg)                                  | 8           | 14    | 15    | 23    | 25    | 7            | 12    | 14    | 24    | 34    |
| Package volume (m <sup>3</sup> )                 | 0.2         | 0.37  | 0.49  | 0.83  | 0.83  | 0.15         | 0.29  | 0.4   | 0.67  | 1.3   |

Fitted with sand dump port of Ø 2" in Ø 750 mm & Ø 900 mm models, and of 1½" in Ø 400, Ø 500 & Ø 600 mm models.

\* 8 hours turnover rate.

- Blow-moulded in a single seamless piece of plastic.
- Fitted with a pressure gauge and integrated air purge and manual water drain.
- Selector valve included.
- Maximum working pressure: 2.5 kg/cm<sup>2</sup> for filter Ø 380 mm, Ø 430 mm and Ø 480 mm, and 2 kg/cm<sup>2</sup> for filter Ø 560 mm and Ø 660 mm.
- Sand- and glass-compatible (see page 189).
- Complies with filtration requirements as per standard EN 16713-1.


 Complies with Standard  
EN 16713-01

 Optional:  
Standard American sizes

 Complies with Standard  
EN 16713-01

## Millennium filters with Top mounted valve

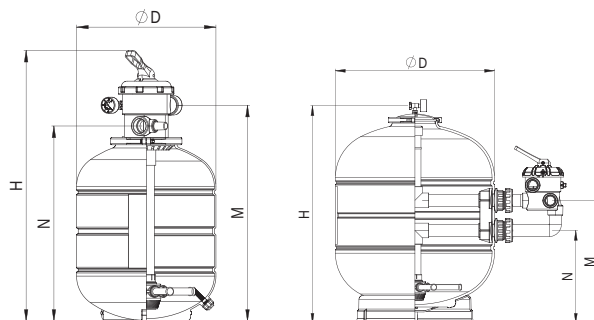


|                                 | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Ø 380 mm - 5500 l/h outlet 1½"  | 33814 | 1             | 12.0                  | 0.17                              |
| Ø 430 mm - 7000 l/h outlet 1½"  | 33815 | 1             | 14.0                  | 0.17                              |
| Ø 480 mm - 9000 l/h outlet 1½"  | 33816 | 1             | 16.0                  | 0.24                              |
| Ø 560 mm - 12000 l/h outlet 1½" | 33817 | 1             | 17.0                  | 0.35                              |
| Ø 660 mm - 17000 l/h outlet 1½" | 33818 | 1             | 24.5                  | 0.52                              |

## Millennium filters with side mounted valve



|                                 | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Ø 380 mm - 5500 l/h outlet 1½"  | 35321 | 1             | 10.5                  | 0.13                              |
| Ø 430 mm - 7000 l/h outlet 1½"  | 22497 | 1             | 13.0                  | 0.13                              |
| Ø 480 mm - 9000 l/h outlet 1½"  | 22499 | 1             | 16.0                  | 0.18                              |
| Ø 560 mm - 12000 l/h outlet 1½" | 22501 | 1             | 18.0                  | 0.26                              |
| Ø 660 mm - 17000 l/h outlet 1½" | 28254 | 1             | 29.0                  | 0.42                              |



### TECHNICAL FEATURES

|             | Top monoblock | Side monoblock |
|-------------|---------------|----------------|
|             | 28299         | 28301          |
| Ø D (mm)    | 660           | 660            |
| Pump        | Sena          | Sena           |
| Power (HP)  | 1.25          | 1.25           |
| Voltage (V) | 230 II        | 230 II         |
| Voltage (V) | 50            | 50             |

### TECHNICAL FEATURES

|                                        | A - Top mounted filter |       |       |        |       | B - Side mounted filter |       |       |        |       |
|----------------------------------------|------------------------|-------|-------|--------|-------|-------------------------|-------|-------|--------|-------|
|                                        | 33814                  | 33815 | 33816 | 33817  | 33818 | 35321                   | 22497 | 22499 | 22501  | 28254 |
| Ø D (mm)                               | 380                    | 430   | 480   | 560    | 660   | 380                     | 430   | 480   | 560    | 660   |
| H (mm)                                 | 820                    | 835   | 870   | 945    | 1050  | 615                     | 655   | 682   | 770    | 900   |
| M (mm)                                 | 650                    | 665   | 700   | 775    | 880   | 225                     | 265   | 292   | 380    | 510   |
| N (mm)                                 | 585                    | 600   | 635   | 710    | 815   | 100                     | 140   | 167   | 255    | 385   |
| Length L (mm)                          | -                      | -     | -     | -      | -     | -                       | -     | -     | -      | -     |
| Connections                            | 1½"                    | 1½"   | 1½"   | 1½"    | 1½"   | 1½"                     | 1½"   | 1½"   | 1½"    | 1½"   |
| Flow rate (m <sup>3</sup> /h)          | 5.5                    | 7     | 9     | 12     | 17    | 5.5                     | 7     | 9     | 12     | 17    |
| Pool volume approx. (m <sup>3</sup> )  | up to 40               | 40-50 | 50-75 | 75-100 | 140   | up to 40                | 40-50 | 50-75 | 75-100 | 140   |
| Sand load (kg)                         | ± 40                   | ± 60  | ± 80  | ± 110  | ± 180 | ± 40                    | ± 60  | ± 80  | ± 110  | ± 180 |
| Grade 1 glass load (57011) (kg)        | ± 35                   | ± 50  | ± 70  | ± 90   | ± 150 | ± 35                    | ± 50  | ± 70  | ± 90   | ± 150 |
| Grade 3 glass load (57013) (kg)        | 0                      | 0     | 0     | 0      | 25    | 0                       | 0     | 0     | 0      | 25    |
| Maximum pressure (kg/cm <sup>2</sup> ) | 2.5                    | 2.5   | 2.5   | 2      | 2     | 2.5                     | 2.5   | 2.5   | 2      | 2     |
| Net weight (kg)                        | 12                     | 13.5  | 15    | 16.5   | 24    | 10                      | 12    | 15    | 17.5   | 28    |
| Package volume (m <sup>3</sup> )       | 0.17                   | 0.17  | 0.24  | 0.35   | 0.52  | 0.13                    | 0.13  | 0.18  | 0.26   | 0.42  |

- Filters manufactured in fibreglass and polyester resin.
- With a gelcoat external finish. As a result, the body is highly resistant, durable and has an excellent finish.
- Internal components and accessories in high quality engineering plastics.
- Compatible with sand and glass, among others (see page 189).
- They comply with filtration requirements as per standard EN 16713-1.

## Atlas filter

**ASTRALPOOL**

### DESCRIPTION

Sand and glass filters, among others, made from reinforced polyester. Complies with filtration requirements as per standard EN 16713-1.

#### Technical features:

- Made of polyester resin and fibreglass.
- Excellent finish with gel-coat colour RAL 8029.
- The filter has been designed with higher coefficient of security, to guarantee a perfect operation.
- The union of the two bodies of the filter is carried out through a seal specially reinforced with fibreglass and polyester resin.
- Transparent plastic cover highly resistant to chemicals.
- High reliability screw-in cover.
- Fitted with 1" collector arms and diffuser made from unplasticized PVC.
- Interior pipe with tubes of PN-16.
- 2½" sand discharge outlet.
- Fitted with pressure gauge, air purge and manual water drain.
- Connections to multiport valve with six positions: filter, backwash, rinse, recirculate, waste and closed.
- Innovation by AstralPool: the filter has a built-in safety valve to prevent pressure surges.
- Maximum pressure: 2.5 kg/cm<sup>2</sup>.



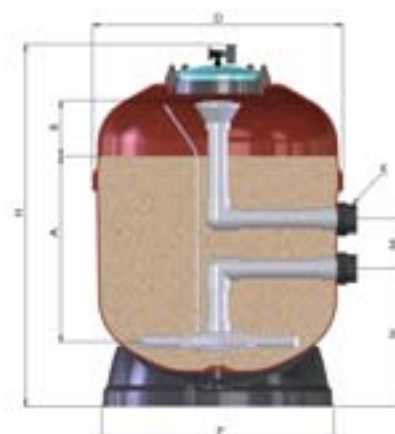
Complies with Standard  
EN 16713-01

|                                     | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Includes multiport valve</b>     |       |               |                       |                                   |
| Ø 500 mm outlet 1½"                 | 36596 | 1             | 20                    | 0.29                              |
| Ø 600 mm outlet 1½"                 | 36597 | 1             | 25                    | 0.41                              |
| Ø 750 mm outlet 2"                  | 36598 | 1             | 33                    | 0.77                              |
| <b>Multiport valve not included</b> |       |               |                       |                                   |
| Ø 900 mm outlet 2½"                 | 36599 | 1             | 51                    | 1.23                              |

\* Figures without valve

### TECHNICAL FEATURES

| Code                                                    | 36596 | 36597 | 36598 | 36599 |
|---------------------------------------------------------|-------|-------|-------|-------|
| Ø Filter (mm)                                           | 500   | 600   | 750   | 900   |
| Connections                                             | 1½"   |       | 2"    | 2½"   |
| Filtrating surface (m <sup>2</sup> )                    | 0.19  | 0.30  | 0.44  | 0.64  |
| Filtrating velocity (m <sup>3</sup> /h/m <sup>2</sup> ) | 50    |       |       |       |
| Flow rate (m <sup>3</sup> /h)                           | 9.5   | 15    | 22    | 30    |
| Maximum pressure (kg/cm <sup>2</sup> )                  | 2.5   |       |       |       |
| Sand load (kg)                                          | 120   | 190   | 360   | 580   |
| Grade 1 glass load (57011) (kg)                         | 100   | 150   | 225   | 375   |
| Grade 3 glass load (57013) (kg)                         | 0     | 0     | 50    | 100   |
| Net weight (kg)                                         | 20    | 25    | 33    | 51    |



Sand drain of 2 ½" and water drain of ¾" with security valve.

# Europe Pro - Pro Long filters

## DESCRIPTION

Filters manufactured in fibreglass and polyester resin. Complies with filtration requirements as per standard EN 16713-1. Sand and glass compatible (see page 189).

- Filter colour (RAL5015)
- 1/4" purge valve.
- 2 1/2" sand discharge
- Polyester or methacrylate cover with screws.
- Diameter of top access: 285 mm.
- Maximum pressure: 2.5 bar.

64990

64986

64998

64994

| Code | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------|---------------|-----------------------|-----------------------------------|
|------|---------------|-----------------------|-----------------------------------|

### Pro version

#### With methacrylate cover

|                                  |       |   |    |      |
|----------------------------------|-------|---|----|------|
| 9500 l/h Ø 500 mm output 1 1/2"  | 64990 | 1 | 15 | 0.33 |
| 15000 l/h Ø 600 mm output 2"     | 64991 | 1 | 20 | 0.45 |
| 22000 l/h Ø 750 mm output 2"     | 64992 | 1 | 25 | 0.83 |
| 30000 l/h Ø 900 mm output 2 1/2" | 64993 | 1 | 46 | 1.43 |

#### With polyester cover

|                                  |       |   |    |      |
|----------------------------------|-------|---|----|------|
| 9500 l/h Ø 500 mm output 1 1/2"  | 64986 | 1 | 15 | 0.33 |
| 15000 l/h Ø 600 mm output 2"     | 64987 | 1 | 20 | 0.45 |
| 22000 l/h Ø 750 mm output 2"     | 64988 | 1 | 25 | 0.83 |
| 30000 l/h Ø 900 mm output 2 1/2" | 64989 | 1 | 46 | 1.43 |

### Pro Long version

#### With methacrylate cover

|                                  |       |   |    |      |
|----------------------------------|-------|---|----|------|
| 9500 l/h Ø 500 mm output 1 1/2"  | 64998 | 1 | 23 | 0.33 |
| 15000 l/h Ø 600 mm output 2"     | 64999 | 1 | 26 | 0.45 |
| 22000 l/h Ø 750 mm output 2"     | 65000 | 1 | 34 | 0.83 |
| 30000 l/h Ø 900 mm output 2 1/2" | 65002 | 1 | 65 | 1.43 |

#### With polyester cover

|                                  |       |   |    |      |
|----------------------------------|-------|---|----|------|
| 9500 l/h Ø 500 mm output 1 1/2"  | 64994 | 1 | 23 | 0.33 |
| 15000 l/h Ø 600 mm output 2"     | 64995 | 1 | 26 | 0.45 |
| 22000 l/h Ø 750 mm output 2"     | 64996 | 1 | 34 | 0.83 |
| 30000 l/h Ø 900 mm output 2 1/2" | 64997 | 1 | 65 | 1.43 |

\* Figures without valve

## TECHNICAL FEATURES

|                                                                 | Pro version |       |       |        | Pro Long version |       |       |        |
|-----------------------------------------------------------------|-------------|-------|-------|--------|------------------|-------|-------|--------|
| With methacrylate cover                                         | 64990       | 64991 | 64992 | 64993  | 64998            | 64999 | 65000 | 65002  |
| With polyester cover                                            | 64986       | 64987 | 64988 | 64989  | 64994            | 64995 | 64996 | 64997  |
| Ø D (mm)                                                        | 500         | 600   | 750   | 900    | 500              | 600   | 750   | 900    |
| Connection                                                      | 1 1/2"      | 2"    | 2"    | 2 1/2" | 1 1/2"           | 2"    | 2"    | 2 1/2" |
| Selector valve code                                             | 00599       | 28476 | 28512 | 24837  | 00599            | 28476 | 28512 | 24837  |
| Filtration surface area (m <sup>2</sup> )                       | 0.19        | 0.3   | 0.44  | 0.64   | 0.19             | 0.3   | 0.44  | 0.64   |
| Filtration velocity (m <sup>3</sup> /h/m <sup>2</sup> )         | 50          |       |       |        | 50               |       |       |        |
| Flow (m <sup>3</sup> /h) at 50 m <sup>3</sup> /h/m <sup>2</sup> | 9.5         | 15    | 22    | 30     | 9.5              | 15    | 22    | 30     |
| Maximum pressure (kg/cm <sup>2</sup> )                          | 2.5         |       |       |        | 2.5              |       |       |        |
| Sand load (kg)                                                  | 120         | 190   | 360   | 580    | 155              | 240   | 430   | 615    |
| Grade 1 glass load (57011) (kg)                                 | 100         | 150   | 250   | 375    | 100              | 150   | 275   | 400    |
| Grade 3 glass load (57013) (kg)                                 | 0           | 0     | 50    | 100    | 25               | 50    | 75    | 100    |
| Net weight (kg)                                                 | 15          | 20    | 25    | 46     | 20               | 25    | 33    | 51     |
| Depth of filter bed (mm)                                        | 390         | 445   | 530   | 645    | 520              | 565   | 620   | 680    |



Complies with Standard  
EN 16713-01

# RapidPool filter

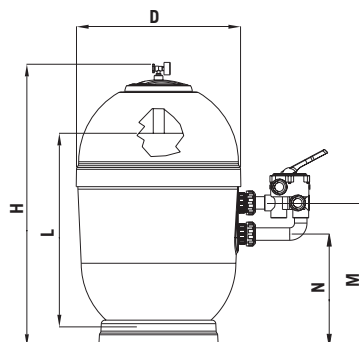
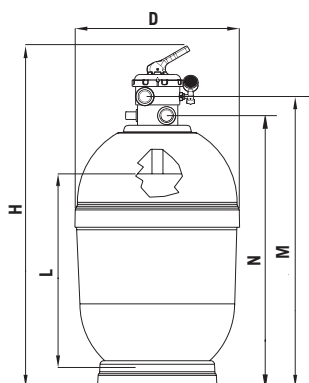

 Complies with Standard  
EN 16713-01

**Filtration bed  
0.6 m**

## DESCRIPTION

Laminated in reinforced polyester with fibreglass. Red, polypropylene base, screw-free lid, cap for sand and water discharge, pressure gauge and air purge incorporated in the lid and side selector valve. Maximum filtration speed 50/h/m<sup>2</sup>. Maximum pressure: 2.5 bar. Sand and glass compatible (see page 189).

|                                   | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Top mounted valve version</b>  |       |               |                       |                                   |
| 6000 l/h Ø 400 mm outlet 1½"      | 32427 | 1             | 19                    | 0.200                             |
| 9000 l/h Ø 500 mm outlet 1½"      | 32428 | 1             | 25                    | 0.355                             |
| 15000 l/h Ø 650 mm outlet 1½"     | 32429 | 1             | 34                    | 0.600                             |
| 24000 l/h Ø 800 mm outlet 2"      | 33849 | 1             | 45                    | 1.050                             |
| <b>Side mounted valve version</b> |       |               |                       |                                   |
| 6000 l/h Ø 400 mm outlet 1½"      | 00488 | 1             | 19                    | 0.150                             |
| 9000 l/h Ø 500 mm outlet 1½"      | 00489 | 1             | 25                    | 0.280                             |
| 15000 l/h Ø 650 mm outlet 1½"     | 00490 | 1             | 34                    | 0.500                             |
| 24000 l/h Ø 800 mm outlet 2"      | 00491 | 1             | 45                    | 0.880                             |



## TECHNICAL FEATURES

|                                                                 | With Top mounted multiport valve |       |       |       | With multiport valve |       |       |       |
|-----------------------------------------------------------------|----------------------------------|-------|-------|-------|----------------------|-------|-------|-------|
|                                                                 | 32427                            | 32428 | 32429 | 33849 | 00488                | 00489 | 00490 | 00491 |
| Ø Filter (mm)                                                   | 400                              | 500   | 650   | 800   | 400                  | 500   | 650   | 800   |
| H (mm)                                                          | 1020                             | 1165  | 1285  | 1566  | 860                  | 1032  | 1126  | 1272  |
| M (mm)                                                          | 850                              | 995   | 1115  | 1355  | 442                  | 527   | 552   | 592   |
| N (mm)                                                          | 790                              | 935   | 1055  | 1279  | 317                  | 402   | 427   | 362   |
| Connections                                                     | 1½"                              | 1½"   | 1½"   | 2"    | 1½"                  | 1½"   | 1½"   | 2"    |
| Flow (m <sup>3</sup> /h) at 50 m <sup>3</sup> /h/m <sup>2</sup> | 6                                | 9     | 15    | 24    | 6                    | 9     | 15    | 24    |
| Pool volume (m <sup>3</sup> ) (8 h)                             | 48                               | 72    | 120   | 120   | 48                   | 72    | 120   | 192   |
| Sand load (kg)                                                  | 60                               | 130   | 255   | 445   | 60                   | 130   | 255   | 445   |
| Grade 1 glass load (57011) (kg)                                 | 50                               | 100   | 175   | 275   | 50                   | 100   | 175   | 275   |
| Grade 3 glass load (57013) (kg)                                 | 0                                | 0     | 25    | 75    | 0                    | 0     | 25    | 75    |
| Sand height (mm)                                                | 545                              | 571   | 650   | 785   | 545                  | 571   | 650   | 785   |
| Maximum pressure (kg/cm <sup>2</sup> )                          | 2.5                              | 2.5   | 2.5   | 2.5   | 2.5                  | 2.5   | 2.5   | 2.5   |
| Net weight (kg)                                                 | 19                               | 25    | 34    | 44    | 15                   | 22    | 30    | 45    |
| Package volume (m <sup>3</sup> )                                | 0.20                             | 0.355 | 0.60  | 1.05  | 0.16                 | 0.3   | 0.53  | 0.9   |

# Aster filter

## DESCRIPTION

Filter laminated in polyester and fibreglass. Grey, polypropylene base, screw-free lid, cap for sand and water discharge, pressure gauge and side selector valve. Maximum pressure 2.5 bar. Maximum filtration speed 50/h/m<sup>2</sup>. Complies with filtration requirements as per standard EN 16713-1. Sand and glass compatible (see page 189).



Complies with Standard  
EN 16713-01

| Code | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------|---------------|-----------------------|-----------------------------------|
|------|---------------|-----------------------|-----------------------------------|

### With top mounted multiport valve

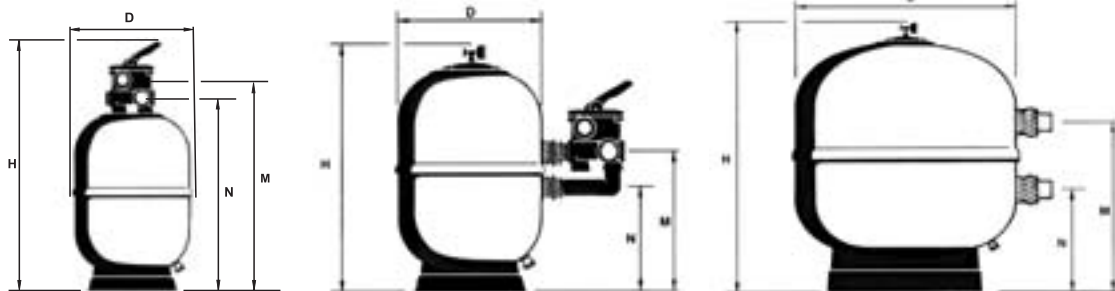
|                               |       |   |    |      |
|-------------------------------|-------|---|----|------|
| 5000 l/h Ø 350 mm outlet 1½"  | 30768 | 1 | 17 | 0.13 |
| 8000 l/h Ø 450 mm outlet 1½"  | 30769 | 1 | 20 | 0.23 |
| 9000 l/h Ø 500 mm outlet 1½"  | 30770 | 1 | 22 | 0.28 |
| 14000 l/h Ø 600 mm outlet 1½" | 30771 | 1 | 27 | 0.39 |
| 15000 l/h Ø 650 mm outlet 1½" | 30772 | 1 | 28 | 0.45 |
| 21000 l/h Ø 750 mm outlet 2"  | 33847 | 1 | 35 | 0.62 |
| 32000 l/h Ø 900 mm outlet 2"  | 33848 | 1 | 53 | 1.27 |

### With side mounted multiport valve

|                               |       |   |    |      |
|-------------------------------|-------|---|----|------|
| 5000 l/h Ø 350 mm outlet 1½"  | 00497 | 1 | 18 | 0.13 |
| 8000 l/h Ø 450 mm outlet 1½"  | 00498 | 1 | 21 | 0.23 |
| 9000 l/h Ø 500 mm outlet 1½"  | 19781 | 1 | 23 | 0.28 |
| 12000 l/h Ø 550 mm outlet 1½" | 32706 | 1 | 27 | 0.28 |
| 14000 l/h Ø 600 mm outlet 1½" | 00499 | 1 | 28 | 0.39 |
| 15000 l/h Ø 650 mm outlet 1½" | 21071 | 1 | 29 | 0.45 |
| 18000 l/h Ø 680 mm outlet 1½" | 28479 | 1 | 30 | 0.46 |
| 21000 l/h Ø 750 mm outlet 2"  | 00500 | 1 | 37 | 0.62 |
| 32000 l/h Ø 900 mm outlet 2"  | 08133 | 1 | 55 | 1.27 |

### Without multiport valve

|                               |       |   |    |      |
|-------------------------------|-------|---|----|------|
| 31000 l/h Ø 900 mm outlet 2½" | 00501 | 1 | 53 | 1.27 |
|-------------------------------|-------|---|----|------|



## TECHNICAL FEATURES

|                                                                 | With Top mounted multiport valve |       |       |       |       |       |       | With multiport valve |       |       |       |       |       |       |       |       | Without valve |
|-----------------------------------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|                                                                 | 30768                            | 30769 | 30770 | 30771 | 30772 | 33847 | 33848 | 00497                | 00498 | 19781 | 32706 | 00499 | 21071 | 28479 | 00500 | 08133 | 00501         |
| Ø D (mm)                                                        | 350                              | 450   | 500   | 600   | 650   | 750   | 900   | 350                  | 450   | 500   | 550   | 600   | 650   | 680   | 750   | 900   | 900           |
| H (mm)                                                          | 910                              | 965   | 960   | 1005  | 1060  | 1184  | 1344  | 780                  | 795   | 770   | 825   | 850   | 880   | 915   | 945   | 1050  | 1050          |
| M (mm)                                                          | 740                              | 795   | 790   | 835   | 890   | 973   | 1133  | 420                  | 430   | 415   | 455   | 455   | 480   | 525   | 555   | 635   | 660           |
| N (mm)                                                          | 680                              | 785   | 730   | 775   | 830   | 897   | 1057  | 295                  | 305   | 290   | 330   | 330   | 355   | 400   | 325   | 365   | 390           |
| Connections                                                     | 1½"                              | 1½"   | 1½"   | 1½"   | 1½"   | 2"    | 2"    | 1½"                  | 1½"   | 1½"   | 1½"   | 1½"   | 1½"   | 1½"   | 2"    | 2"    | 2½"           |
| Flow (m <sup>3</sup> /h) at 50 m <sup>2</sup> /h/m <sup>2</sup> | 5                                | 8     | 9     | 14    | 15    | 21    | 31    | 5                    | 8     | 9     | 12    | 14    | 15    | 18    | 21    | 30    | 30            |
| Pool volume (m <sup>3</sup> ) (8 h)                             | 40                               | 64    | 72    | 112   | 120   | 168   | 240   | 40                   | 64    | 72    | 96    | 112   | 120   | 144   | 168   | 240   | 240           |
| Sand load (kg)                                                  | 50                               | 70    | 90    | 110   | 200   | 290   | 500   | 50                   | 70    | 90    | 110   | 125   | 200   | 210   | 290   | 500   | 500           |
| Grade 1 glass load (57011) (kg)                                 | 50                               | 50    | 75    | 100   | 150   | 175   | 325   | 50                   | 50    | 75    | 100   | 100   | 150   | 150   | 175   | 325   | 325           |
| Grade 3 glass load (57013) (kg)                                 | 0                                | 0     | 0     | 0     | 0     | 50    | 75    | 0                    | 0     | 0     | 0     | 0     | 0     | 25    | 50    | 75    | 75            |
| Maximum pressure (kg/cm <sup>2</sup> )                          | 2.5                              | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5                  | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5           |
| Net weight (kg)                                                 | 17                               | 20    | 22    | 27    | 28    | 35    | 53    | 18                   | 21    | 23    | 27    | 28    | 29    | 30    | 37    | 55    | 53            |
| Package volume (m <sup>3</sup> )                                | 0.13                             | 0.23  | 0.28  | 0.39  | 0.45  | 0.62  | 1.27  | 0.13                 | 0.23  | 0.28  | 0.28  | 0.39  | 0.45  | 0.46  | 0.62  | 1.26  | 1.27          |

# Vesubio filter


 Complies with Standard  
EN 16713-01

Filters with a side connection up to Ø 1050 mm can use a multiport selector valve (see page 187).

Ø 900 and Ø 1050 mm filters with side outlets are supplied without multiport valve.

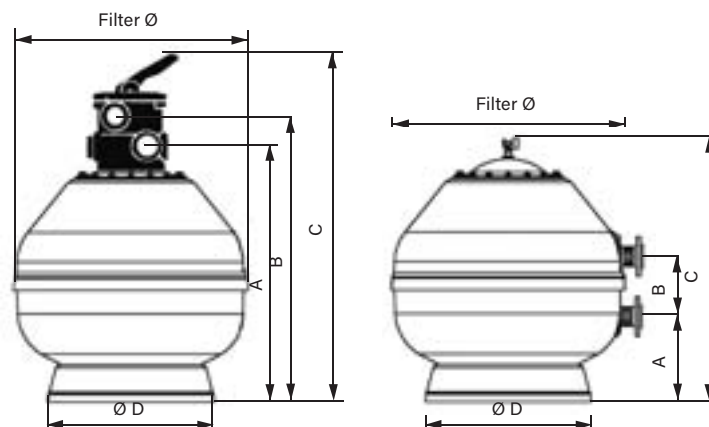
## DESCRIPTION

The Vesubio range has been expanded to reach both the public and private pool sectors. Filters manufactured using simultaneous projection of resin and fibreglass. Threaded lid with high-resistance screws. Ø 210mm top mouth. Ø 1050mm and Ø 1200mm models also available with a top mouth of Ø 400mm. Maximum pressure 2.5 bar. Sand and glass compatible (see page 189).

|                                    | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Side mount version</b>          |       |               |                       |                                   |
| 8000 l/h Ø 450 mm outlet 50 mm     | 15785 | 1             | 16                    | 0.200                             |
| 9000 l/h Ø 500 mm outlet 50 mm     | 19353 | 1             | 20                    | 0.260                             |
| 14000 l/h Ø 600 mm outlet 50 mm    | 15786 | 1             | 23                    | 0.357                             |
| 22000 l/h Ø 750 mm outlet 63 mm    | 15787 | 1             | 32                    | 0.595                             |
| 32000 l/h Ø 900 mm outlet 75 mm    | 15788 | 1             | 48                    | 1.003                             |
| 43000 l/h Ø 1050* mm outlet 75 mm  | 15789 | 1             | 97                    | 2.052                             |
| 43000 l/h Ø 1050** mm outlet 75 mm | 32391 | 1             | 97                    | 2.052                             |
| 56000 l/h Ø 1200* mm outlet 90 mm  | 15790 | 1             | 130                   | 2.450                             |
| 56000 l/h Ø 1200** mm outlet 90 mm | 32392 | 1             | 140                   | 2.430                             |
| <b>Top mount version</b>           |       |               |                       |                                   |
| 8000 l/h Ø 450 mm outlet 50 mm     | 32430 | 1             | 19                    | 0.280                             |
| 9000 l/h Ø 500 mm outlet 50 mm     | 32431 | 1             | 23                    | 0.350                             |
| 14000 l/h Ø 600 mm outlet 50 mm    | 32432 | 1             | 26                    | 0.480                             |
| 22000 l/h Ø 750 mm outlet 63 mm    | 33850 | 1             | 40                    | 0.787                             |
| 32000 l/h Ø 900 mm outlet 63 mm    | 33851 | 1             | 56                    | 1.276                             |

\* Small upper lid of Ø 210 mm

\*\* Upper lid of Ø 400 mm



## TECHNICAL FEATURES

|                                                                 | With Top mounted multiport valve |       |       |       |       | With multiport valve |       |       |       |       |       |       |       |       |  |
|-----------------------------------------------------------------|----------------------------------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                                 | 32430                            | 32431 | 32432 | 33850 | 33851 | 15785                | 19353 | 15786 | 15787 | 15788 | 15789 | 32391 | 15790 | 32392 |  |
| Ø Filter (mm)                                                   | 450                              | 500   | 600   | 750   | 900   | 450                  | 500   | 600   | 750   | 900   | 1050  | 1050  | 1200  | 1200  |  |
| A (mm)                                                          | 650                              | 690   | 790   | 837   | 987   | 265                  | 305   | 325   | 300   | 325   | 435   | 410   | 490   | 490   |  |
| B (mm)                                                          | 710                              | 750   | 850   | 913   | 1063  | 125                  | 125   | 125   | 230   | 270   | 270   | 270   | 270   | 270   |  |
| C (mm)                                                          | 880                              | 920   | 1020  | 1124  | 1274  | 725                  | 765   | 865   | 895   | 1080  | 1110  | 1235  | 1235  | 1360  |  |
| D (mm)                                                          | 347                              | 400   | 400   | 490   | 625   | 347                  | 400   | 400   | 490   | 625   | 760   | 775   | 855   | 940   |  |
| Filtration surface area (m <sup>2</sup> )                       | 0.16                             | 0.19  | 0.30  | 0.44  | 0.64  | 0.16                 | 0.19  | 0.30  | 0.44  | 0.64  | 0.86  | 0.86  | 1.13  | 1.13  |  |
| Connections                                                     | 1½"                              | 1½"   | 1½"   | 2"    | 2"    | 1½"                  | 1½"   | 1½"   | 2"    | 2½"   | 2½"   | 2½"   | 90    | 90    |  |
| Flow (m <sup>3</sup> /h) at 50 m <sup>3</sup> /h/m <sup>2</sup> | 8                                | 9     | 14    | 22    | 32    | 8                    | 9     | 14    | 22    | 32    | 43    | 43    | 56    | 56    |  |
| Pool volume (m <sup>3</sup> ) (8 hours)                         | 64                               | 72    | 112   | 176   | 256   | 64                   | 72    | 112   | 176   | 256   | 344   | 344   | 448   | 448   |  |
| Sand load (kg)                                                  | 60                               | 95    | 148   | 245   | 415   | 60                   | 95    | 148   | 245   | 415   | 660   | 660   | 1000  | 1000  |  |
| Grade 1 glass load (57011) (kg)                                 | 50                               | 75    | 125   | 150   | 275   | 50                   | 75    | 125   | 150   | 275   | 500   | 500   | 775   | 775   |  |
| Grade 3 glass load (57013) (kg)                                 | 0                                | 0     | 0     | 50    | 50    | 0                    | 0     | 0     | 50    | 50    | 125   | 125   | 200   | 200   |  |

- Laminated filters with higher filter bed for enhanced performance and filtration quality, both for single-layer and multi-layer filters.
- There are various options to help choose the model that best suits usage and maintenance requirements.
- Compatible with sand, glass and anthracite, among others (see page 190).
- They comply with filtration requirements as per standard EN 16713-1.

## Norma filter

**ASTRALPOOL**

### DESCRIPTION

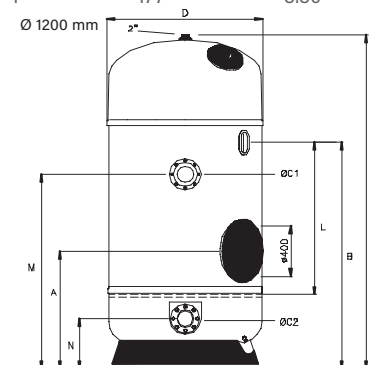
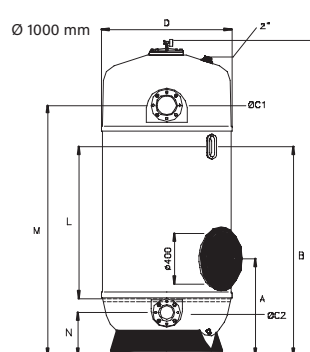
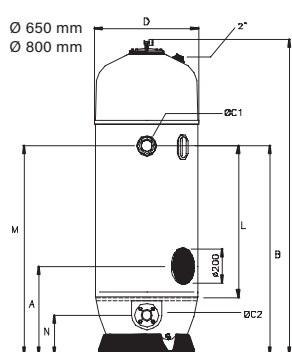
Filter laminated in fibreglass-reinforced polyester (FRP). For single layer or multilayer filling. Maximum pressure 2.5 bar. The Norma filter is designed according to Germany's DIN 19643/19605 standard. Available with a plate collector system (0.5 mm slot) including a manhole cover for inspection of the bottom. Fitted with a sight glass, Ø 200mm top lid for loading sand and Ø 200mm or Ø 400mm side mouth depending on model. Fitted with pressure gauge, air purge and manual water drain. Interiors in PVC and PP. A4 screws and EPDM gaskets. Standard colour: ivory. Options. Vinyl ester coating (ozone resistant, concentrations <0.4 ppm and max. temp 40°C). Sand and glass compatible (see page 189).

| Code | Standard Pack | Standard weight in kg | Standard volume in m³ |
|------|---------------|-----------------------|-----------------------|
|------|---------------|-----------------------|-----------------------|

**Maximum pressure: 2.5 kg/cm²**  
**Filtration velocity 30**

| Diameter<br>Ø mm | Outlet<br>Ø mm | Flow rate m³/h<br>at 30 m³/h/m |
|------------------|----------------|--------------------------------|
| 650              | 90-75          | 10                             |
| 800              | 90-75          | 15                             |
| 1.000            | 140-110        | 23                             |
| 1.200            | 140-140        | 34                             |

| Code   | Standard Pack | Standard weight in kg | Standard volume in m³ |
|--------|---------------|-----------------------|-----------------------|
| 08142P | 1             | 100                   | 1.33                  |
| 08143P | 1             | 125                   | 2.00                  |
| 08144P | 1             | 145                   | 3.00                  |
| 08145P | 1             | 177                   | 5.50                  |



### TECHNICAL FEATURES

|                           |                                 | 08142P | 08143P | 08144P | 08145P |
|---------------------------|---------------------------------|--------|--------|--------|--------|
| D (mm)                    |                                 | 650    | 800    | 1000   | 1200   |
| A (mm)                    |                                 | 680    | 700    | 770    | 950    |
| B (mm)                    |                                 | 1660   | 1640   | 1655   | 1790   |
| H (mm)                    |                                 | 2480   | 2480   | 2490   | 2640   |
| L (mm)                    |                                 | 1200   | 1200   | 1200   | 1200   |
| M (mm)                    |                                 | 1650   | 1650   | 1980   | 1600   |
| N (mm)                    |                                 | 320    | 320    | 340    | 400    |
| Ø C1 (mm)                 |                                 | 90     | 90     | 140    | 140    |
| Ø C2 (mm)                 |                                 | 75     | 75     | 110    | 140    |
| Flow (m³/h) at 30 m³/h/m² |                                 | 10     | 15     | 23     | 33     |
| MULTILAYER                | Anthracite 0.8 - 1.6 mm (l)     | 148    | 250    | 390    | 564    |
|                           | Sand 0.4 - 0.8 mm (Kg)          | 160    | 271    | 420    | 611    |
|                           | Gravel 1 - 2 mm (Kg)            | 46     | 78     | 120    | 175    |
|                           | Gravel 3 - 5 mm (Kg)            | 46     | 78     | 120    | 175    |
| SINGLE LAYER              | Sand load (kg)                  | 451    | 767    | 1215   | 1763   |
|                           | Gravel load (kg)                | 46     | 78     | 120    | 175    |
|                           | Grade 1 glass load (57011) (kg) | 275    | 500    | 750    | 1125   |
|                           | Grade 2 glass load (57012) (kg) | 100    | 150    | 250    | 350    |
|                           | Grade 3 glass load (57013) (kg) | 100    | 175    | 275    | 375    |



Complies with Standard  
EN 16713-01

**Filtration bed  
1.2 m**

# Delta 1200 filter


 Complies with Standard  
EN 16713-01

**Filtration bed  
1.2 m**

## DESCRIPTION

Filter laminated in polyester and fibreglass available in diameters of 650, 800, 1000 and 1200 mm. It has a 1.2-m filter bed and is available with an arm collector system and a plate collector system. Complies with filtration requirements as per standard EN 16713-1.

- DN 200 filter lid with quick-locking system for 650 and 800 models and DN 400 bolt down lid for 1000 and 1200 models.
- DN200 lateral manhole with bolt down cover.
- Filter interior left with natural resin finish.
- EASTAR sightglass as standard. Further sight glasses are available on request.
- Inner pipe and fittings in PVC, PP and ABS.
- Pressure gauge included in filter lid.
- Gaskets in EPDM and all screw fittings in stainless steel.
- Vinylester option. In this case, internal layer is manufactured from vinylester resin (and not only the top layer in contact with the water), to a maximum chemical resistance of 0.4 ppm of ozone dissolved and to a maximum temperature 50°.
- Comes in RAL 5024 blue.

|                                     |        |                | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-------------------------------------|--------|----------------|-------|---------------|-----------------------|-----------------------|
| <b>Maximum pressure: 2.5 kg/cm²</b> |        |                |       |               |                       |                       |
| <b>Conventional collector arms.</b> |        |                |       |               |                       |                       |
| <b>Arm slots 0.3 mm</b>             |        |                |       |               |                       |                       |
| Diameter                            | Outlet | Flow rate m³/h |       |               |                       |                       |
| Ø mm                                | Ø mm   | at 40 m³/h/m   |       |               |                       |                       |
| 650                                 | 1½"    | 13.3           | 36680 | 1             | 100                   | 1.50                  |
| 800                                 | 2"     | 20.1           | 36681 | 1             | 110                   | 1.94                  |
| 1000                                | 2½"    | 31.4           | 36682 | 1             | 120                   | 2.31                  |
| 1200                                | 90     | 45.2           | 36683 | 1             | 160                   | 3.54                  |

**Maximum pressure: 2.5 kg/cm<sup>2</sup>**  
**Nozzle collector plate.**  
**Nozzle slots 0.5 mm**

| Diameter<br>Ø mm | Outlet<br>Ø mm | Flow rate m³/h<br>at 40 m³/h/m |       |   |     |      |
|------------------|----------------|--------------------------------|-------|---|-----|------|
| 650              | 1½"            | 13.3                           | 36688 | 1 | 114 | 1.50 |
| 800              | 2"             | 20.1                           | 36689 | 1 | 131 | 1.94 |
| 1000             | 2½"            | 31.4                           | 36690 | 1 | 150 | 2.31 |
| 1200             | 90             | 45.2                           | 36691 | 1 | 200 | 3.54 |

\* Maximum flow and filtration velocity recommended

## TECHNICAL FEATURES

|                                 | Collector arms |       |       |       | Nozzle collector plate |       |       |       |
|---------------------------------|----------------|-------|-------|-------|------------------------|-------|-------|-------|
|                                 | 36680          | 36681 | 36682 | 36683 | 36688                  | 36689 | 36690 | 36691 |
| Sand load (kg)                  | 451            | 767   | 1325  | 1763  | 451                    | 767   | 1325  | 1763  |
| Gravel load (kg)                | 86             | 156   | 300   | 350   | 46                     | 78    | 120   | 175   |
| Grade 1 glass load (57011) (kg) | 325            | 500   | 850   | 1125  | 300                    | 450   | 750   | 1050  |
| Grade 2 glass load (57012) (kg) | 100            | 175   | 275   | 375   | 100                    | 150   | 250   | 350   |
| Grade 3 glass load (57013) (kg) | 100            | 175   | 300   | 400   | 100                    | 175   | 275   | 375   |

# Delta 1000 filter

## DESCRIPTION

Filter laminated in polyester and fibreglass available in diameters of 650, 800, 1000 and 1200 mm. It has a 1-m filter bed and is available with an arm collector system and a plate collector system. Complies with filtration requirements as per standard EN 16713-1.

- DN 200 filter lid with quick-locking system for 650 and 800 models and DN 400 bolt down lid for 1000 and 1200 models.
- DN200 lateral manhole with bolt down cover.
- Filter interior left with natural resin finish.
- Optional methacrylate sight glass on the Delta 10 model. More than one sight glass can be placed if desired.
- Inner pipe and fittings in PVC, PP and ABS.
- Pressure gauge included in filter lid.
- Gaskets in EPDM and all screw fittings in stainless steel.
- Vinylester option. In this case, internal layer is manufactured from vinylester resin (and not only the top layer in contact with the water), to a maximum chemical resistance of 0.4 ppm of ozone dissolved and to maximum temperature 50°.
- Comes in RAL 5024 blue.



Complies with Standard  
EN 16713-01

**Filtration bed  
1 m**

Code      Standard Pack      Standard weight in kg      Standard volume in m<sup>3</sup>

**Maximum pressure: 2.5 kg/cm<sup>2</sup>**

**Conventional collector arms.**

**Arm slots 0.3 mm**

| Diameter<br>Ø mm | Outlet<br>Ø mm | Flow rate m <sup>3</sup> /h<br>at 40 m <sup>3</sup> /h/m |       |   |     |      |
|------------------|----------------|----------------------------------------------------------|-------|---|-----|------|
| 500              | 1½"            | 8                                                        | 58682 | 1 | 80  | 1.34 |
| 650              | 1½"            | 13.3                                                     | 36676 | 1 | 80  | 1.34 |
| 800              | 2"             | 20.1                                                     | 36677 | 1 | 90  | 1.71 |
| 1000             | 2½"            | 31.4                                                     | 36678 | 1 | 125 | 2.16 |
| 1200             | 90             | 45.2                                                     | 36679 | 1 | 150 | 3.29 |

**Maximum pressure: 2.5 kg/cm<sup>2</sup>**

**Nozzle collector plate.**

**Nozzle slots 0.5 mm**

| Diameter<br>Ø mm | Outlet<br>Ø mm | Flow rate m <sup>3</sup> /h<br>at 40 m <sup>3</sup> /h/m |       |   |     |      |
|------------------|----------------|----------------------------------------------------------|-------|---|-----|------|
| 650              | 1½"            | 13.3                                                     | 36684 | 1 | 94  | 1.34 |
| 800              | 2"             | 20.1                                                     | 36685 | 1 | 111 | 1.71 |
| 1000             | 2½"            | 31.4                                                     | 36686 | 1 | 155 | 2.16 |
| 1200             | 90             | 45.2                                                     | 36687 | 1 | 190 | 3.29 |

\* Maximum flow and filtration velocity recommended

## TECHNICAL FEATURES

|                                 | Collector arms |       |       |       |       | Nozzle collector plate |       |       |       |
|---------------------------------|----------------|-------|-------|-------|-------|------------------------|-------|-------|-------|
|                                 | 58682          | 36676 | 36677 | 36678 | 36679 | 36684                  | 36685 | 36686 | 36687 |
| Sand load (kg)                  | 245            | 400   | 640   | 990   | 1425  | 400                    | 640   | 990   | 1425  |
| Gravel load (kg)                | 60             | 86    | 156   | 300   | 350   | 46                     | 78    | 120   | 175   |
| Grade 1 glass load (57011) (kg) | 175            | 275   | 450   | 725   | 1000  | 250                    | 400   | 600   | 875   |
| Grade 2 glass load (57012) (kg) | 50             | 75    | 150   | 225   | 325   | 75                     | 125   | 200   | 275   |
| Grade 3 glass load (57013) (kg) | 75             | 100   | 150   | 250   | 350   | 100                    | 125   | 200   | 300   |

# Delta filters

## TECHNICAL FEATURES



Fast lid opening for diameters 500, 650 and 800



Collector arms detail



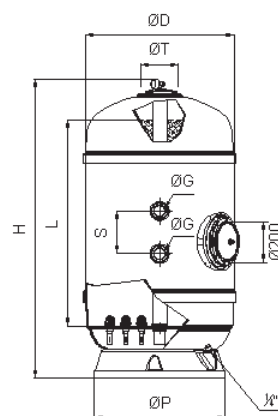
Lid D.400 for diameters 1000 and 1200



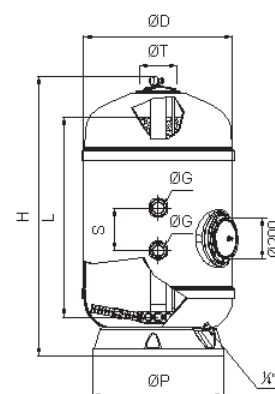
Nozzle plate detail



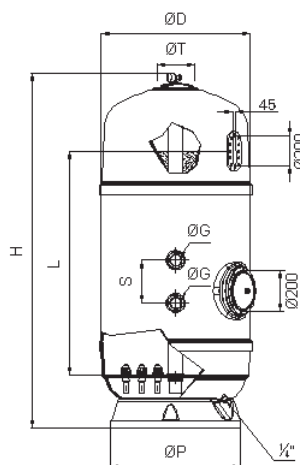
Complies with Standard  
EN 16713-01



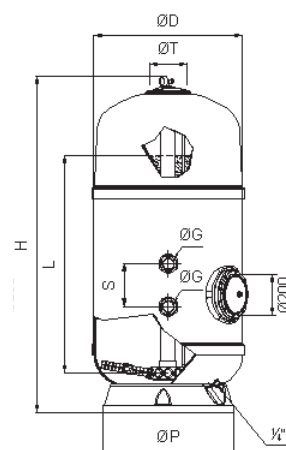
Delta 10 nozzle collector plate



Delta 10 nozzle collector arms



Delta 12 nozzle collector plate



Delta 12 nozzle collector arms

|                              |                                 | DELTA 10       |       |       |       |                        |       |       |       | DELTA 12       |       |       |       |                        |       |       |       |       |
|------------------------------|---------------------------------|----------------|-------|-------|-------|------------------------|-------|-------|-------|----------------|-------|-------|-------|------------------------|-------|-------|-------|-------|
|                              |                                 | Collector arms |       |       |       | Nozzle collector plate |       |       |       | Collector arms |       |       |       | Nozzle collector plate |       |       |       |       |
|                              |                                 | 58682          | 36676 | 36677 | 36678 | 36679                  | 36684 | 36685 | 36686 | 36687          | 36680 | 36681 | 36682 | 36683                  | 36688 | 36689 | 36690 | 36691 |
| D (mm)                       |                                 | 535            | 670   | 820   | 1.035 | 1.240                  | 650   | 800   | 1.000 | 1.200          | 650   | 800   | 1.000 | 1.200                  | 650   | 800   | 1.000 | 1.200 |
| Ø P (mm)                     |                                 | 400            | 490   | 625   | 890   | 1145                   | 490   | 625   | 890   | 1145           | 585   | 700   | 890   | 1145                   | 585   | 700   | 890   | 1145  |
| H (mm)                       |                                 | 1680           | 1702  | 1749  | 1840  | 1915                   | 1770  | 1860  | 1870  | 1240           | 1920  | 1995  | 2010  | 2150                   | 1920  | 1995  | 2010  | 2150  |
| L (mm)                       |                                 | -              | 1000  | 1000  | 1000  | 1000                   | 1000  | 1000  | 1000  | 1000           | 1200  | 1200  | 1200  | 1200                   | 1200  | 1200  | 1200  | 1200  |
| S (mm)                       |                                 | 125            | 125   | 230   | 270   | 300                    | 125   | 230   | 270   | 300            | 125   | 230   | 270   | 300                    | 125   | 230   | 270   | 300   |
| Ø T                          |                                 | 200            | 200   | 200   | 400   | 400                    | 200   | 200   | 400   | 400            | 200   | 200   | 400   | 400                    | 200   | 200   | 400   | 400   |
| Ø G                          |                                 | 1½"            | 1½"   | 2"    | 2½"   | 3"                     | 1½"   | 2"    | 2½"   | 3"             | 1½"   | 2"    | 2½"   | 3"                     | 1½"   | 2"    | 2½"   | 3"    |
| Flow rate m³/h at 30 m³/h/m² |                                 | 5.88           | 9     | 15    | 23    | 34                     | 9     | 15    | 23    | 34             | 9     | 15    | 23    | 34                     | 9     | 15    | 23    | 34    |
| Flow rate m³/h at 40 m³/h/m² |                                 | 7,84           | 12    | 20    | 30    | 45                     | 12    | 20    | 30    | 45             | 12    | 20    | 30    | 45                     | 12    | 20    | 30    | 45    |
| MULTILAYER                   | Anthracite 0.8 - 1.6 mm (l)     | -              | -     | -     | -     | -                      | -     | -     | -     | -              | 148   | 250   | 387   | 564                    | 148   | 250   | 387   | 564   |
|                              | Sand 0.4 - 0.8 mm (Kg)          | -              | -     | -     | -     | -                      | -     | -     | -     | -              | 160   | 271   | 419   | 611                    | 160   | 271   | 419   | 611   |
|                              | Gravel 1 - 2 mm (Kg)            | -              | -     | -     | -     | -                      | -     | -     | -     | -              | 46    | 78    | 120   | 175                    | 46    | 78    | 120   | 175   |
|                              | Gravel 3 - 5 mm (Kg)            | -              | -     | -     | -     | -                      | -     | -     | -     | -              | 86    | 156   | 300   | 350                    | 46    | 78    | 120   | 175   |
| SINGLE LAYER                 | Sand 0.4 - 0.8 mm (Kg)          | 245            | 400   | 640   | 990   | 1425                   | 400   | 640   | 990   | 1425           | 451   | 767   | 1325  | 1763                   | 451   | 767   | 1325  | 1763  |
|                              | Gravel 1 - 2 mm (Kg)            | 60             | 86    | 156   | 300   | 350                    | 46    | 78    | 120   | 175            | 86    | 156   | 300   | 350                    | 46    | 78    | 120   | 175   |
|                              | Grade 1 glass load (57011) (kg) | 175            | 275   | 450   | 725   | 1000                   | 250   | 400   | 600   | 875            | 325   | 500   | 850   | 1125                   | 300   | 450   | 750   | 1050  |
|                              | Grade 2 glass load (57012) (kg) | 50             | 75    | 150   | 225   | 325                    | 75    | 125   | 200   | 275            | 100   | 175   | 275   | 375                    | 100   | 150   | 250   | 350   |
|                              | Grade 3 glass load (57013) (kg) | 75             | 100   | 150   | 250   | 350                    | 100   | 125   | 200   | 300            | 100   | 175   | 300   | 400                    | 100   | 175   | 275   | 375   |

# Artic Plus filter

## DESCRIPTION

Range of high-capacity retention filters with optimal backwash performance. Manufactured in polyester with an external gel-coat finish. Body of just two parts; ivory. Maximum working temperature of 50°C. Internal parts made from PVC plastic. Ø 400 lid to remove sand from bottom part of filter (optional) in Ø 1050 and Ø 1200 versions. Ø 650, 800, 950, 1050 and 1200 filters available with collector arms or nozzle plate. Compatible with sand and glass, among others (see page 189). Complies with filtration requirements as per standard EN 16713-1.

|                              | Code       | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------------------------------|------------|---------------|-----------------------|-----------------------------------|
| <b>Collector arms system</b> |            |               |                       |                                   |
| Ø 650 mm connection 1½"      | 36053-0100 | 1             | 80                    | 1.45                              |
| Ø 800 mm connection 2"       | 36054-0100 | 1             | 95                    | 1.85                              |
| Ø 950 mm connection 2½"      | 41373      | 1             | 136                   | 2.54                              |
| Ø 1050 mm connection 3"      | 36055      | 1             | 145                   | 2.73                              |
| Ø 1200 mm connection 4"      | 36056      | 1             | 220                   | 4.10                              |

## TECHNICAL FEATURES

|                                 | 36053 | 36054 | 41373 | 36055 | 36056 |
|---------------------------------|-------|-------|-------|-------|-------|
| Ø D (mm)                        | 680   | 825   | 970   | 1090  | 1255  |
| H (mm)                          | 1900  | 1950  | 1960  | 2145  | 2170  |
| M (mm)                          | 125   | 230   | 270   | 270   | 270   |
| N (mm)                          | 730   | 670   | 665   | 665   | 665   |
| L (mm)                          | 1200  |       |       |       |       |
| C (mm)                          | 300   |       |       |       |       |
| P (mm)                          | 490   | 625   | 705   | 775   | 940   |
| T (mm)                          | 200   |       |       | 400   |       |
| Connections                     | 1½"   | 2"    | 2½"   | 3"    | 4"    |
| Flow rate (m³/h)                | 16.5  | 25    | 35    | 43    | 56.5  |
| Filtration area (m²)            | 0.33  | 0.50  | 0.70  | 0.86  | 1.13  |
| Sand load (kg)                  | 470   | 660   | 1015  | 1240  | 1665  |
| Gravel load (kg)                | 100   | 165   | 260   | 320   | 410   |
| Grade 1 glass load (57011) (kg) | 325   | 475   | 725   | 875   | 1175  |
| Grade 2 glass load (57012) (kg) | 100   | 150   | 225   | 275   | 375   |
| Grade 3 glass load (57013) (kg) | 125   | 150   | 250   | 300   | 400   |
| Maximum pressure (kg/cm²)       | 2.5   |       |       |       |       |
| Net weight (kg)                 | 75    | 90    | 131   | 135   | 210   |
| Water drain                     | 1"    | 1"    | 1"    | 2½"   | 2½"   |
| Injection-moulded plastic lid   | Ø200  | Ø200  | Ø200  | Ø400  | Ø400  |



Complies with Standard  
EN 16713-01

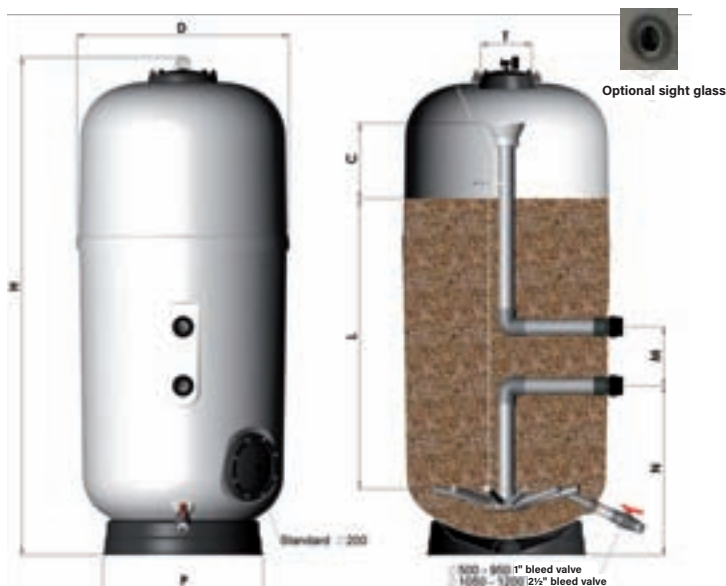
**Filtration bed  
1.2 m**



Nozzle plate detail



Collector arms detail



# Artic filter



Complies with Standard  
EN 16713-01

**Filtration bed  
1 m**



Nozzle plate detail



Collector arms detail

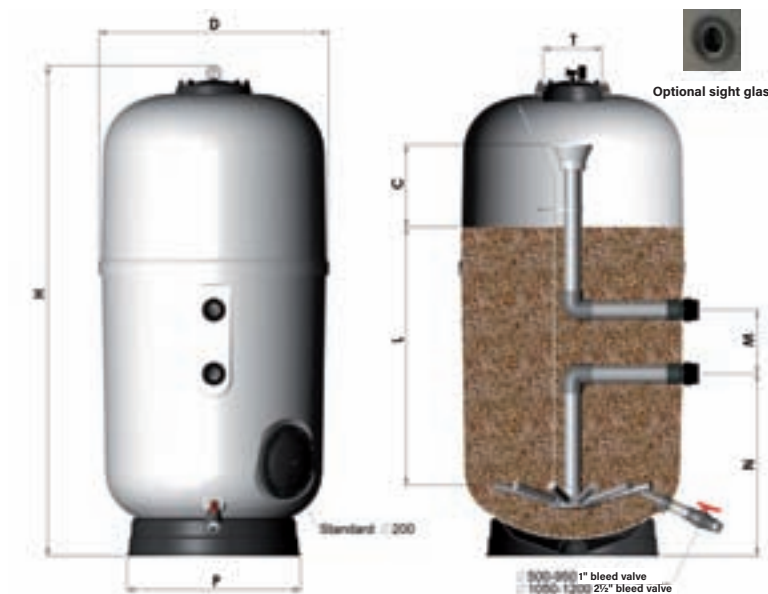
## DESCRIPTION

Range of high-capacity retention filters with optimal backwash performance. Manufactured in polyester with an external gel-coat finish. Body of just two parts; ivory. Maximum working temperature of 50°C. Internal parts made from PVC plastic. Ø 400 lid to remove sand from bottom part of filter (optional) in Ø 1050 and Ø 1200 versions. Ø 650, 800, 950, 1050 and 1200 filters available with collector arms or nozzle plate. Compatible with sand and glass, among others (see page 189). Complies with filtration requirements as per standard EN 16713-1.

|                              | Code       | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|------------------------------|------------|---------------|-----------------------|-----------------------------------|
| <b>Collector arms system</b> |            |               |                       |                                   |
| Ø 500 mm connection 1½"      | 34029-0100 | 1             | 65                    | 1.30                              |
| Ø 650 mm connection 1½"      | 34030-0100 | 1             | 70                    | 1.34                              |
| Ø 800 mm connection 2"       | 34031-0100 | 1             | 75                    | 1.67                              |
| Ø 950 mm connection 2½"      | 41187      | 1             | 119                   | 2.30                              |
| Ø 1050 mm connection 3"      | 41188      | 1             | 145                   | 2.42                              |
| Ø 1200 mm connection 4"      | 41189      | 1             | 165                   | 3.65                              |

## TECHNICAL FEATURES

|                                        | 34029 | 34030 | 34031 | 41187 | 41188 | 41189 |
|----------------------------------------|-------|-------|-------|-------|-------|-------|
| Ø D (mm)                               | 535   | 680   | 825   | 970   | 1090  | 1255  |
| H (mm)                                 | 1650  | 1700  | 1750  | 1760  | 1895  | 1970  |
| M (mm)                                 | 125   | 125   | 230   | 270   | 270   | 270   |
| N (mm)                                 | 780   | 775   | 685   | 655   | 630   | 665   |
| L (mm)                                 | 1000  |       |       |       |       |       |
| C (mm)                                 | 300   |       |       |       |       |       |
| P (mm)                                 | 400   | 490   | 625   | 705   | 775   | 940   |
| T (mm)                                 | 200   |       |       |       | 400   |       |
| Connections                            | 1½"   | 1½"   | 2"    | 2½"   | 3"    | 4"    |
| Flow rate (m <sup>3</sup> /h)          | 9.5   | 16.5  | 25    | 35    | 43    | 56.5  |
| Filtration area (m <sup>2</sup> )      | 0.19  | 0.33  | 0.50  | 0.70  | 0.86  | 1.13  |
| Sand load (kg)                         | 225   | 380   | 530   | 830   | 1015  | 1360  |
| Gravel load (kg)                       | 50    | 100   | 165   | 260   | 320   | 410   |
| Grade 1 glass load (57011) (kg)        | 150   | 275   | 375   | 600   | 750   | 1000  |
| Grade 2 glass load (57012) (kg)        | 50    | 75    | 125   | 200   | 250   | 325   |
| Grade 3 glass load (57013) (kg)        | 50    | 100   | 150   | 225   | 275   | 350   |
| Maximum pressure (kg/cm <sup>2</sup> ) | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| Net weight (kg)                        | 60    | 65    | 70    | 109   | 135   | 155   |
| Water drain                            | 1"    | 1"    | 1"    | 1"    | 2½"   | 2½"   |
| Injection-moulded plastic lid          | Ø200  | Ø200  | Ø200  | Ø200  | Ø400  | Ø400  |



# Aster filter - high quality of filtration

## DESCRIPTION

Laminated filter made of fibreglass and polyester. Filter bed 800 mm in depth. Grey in colour, polypropylene base, fast open lid, water drainage plug, flowmeter and side multiport valve. Maximum pressure 2.5 bar. Top filtration speed of 50 m<sup>3</sup>/h/m<sup>2</sup>. The filter can be used with a single layer or a multi-layer combination of gravel with sand, glass or anthracite. Quick-release lid. Has a 2½" sand discharge out let at the bottom of the filter. Optional sand discharge outlet of 200 mm. Optional vinylester interior finish for treatment with ozone. Maximum temperature 50°.

|                     | Code       | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------|------------|---------------|-----------------------|-----------------------------------|
| Ø 500 mm output 1½" | 24768-0100 | 1             | 30                    | 0.44                              |
| Ø 600 mm output 1½" | 24769-0100 | 1             | 40                    | 0.64                              |
| Ø 750 mm output 2"  | 24770-0100 | 1             | 60                    | 1.0                               |
| Ø 900 mm output 2"  | 10003-0100 | 1             | 90                    | 1.6                               |
| Ø 900 output 2½"    | 10004      | 1             | 90                    | 1.6                               |

## TECHNICAL FEATURES

|                                 | 24768-0100 | 24769-0100 | 24770-0100 | 10003-0100 | 10004 |
|---------------------------------|------------|------------|------------|------------|-------|
| Ø D (mm)                        | 500        | 600        | 750        | 900        |       |
| H (mm)                          | 1365       | 1370       | 1435       | 1400       | 1435  |
| M (mm)                          | 605        | 605        | 665        | 825        | 865   |
| N (mm)                          | 480        | 480        | 435        | 595        | 595   |
| Connections                     | 1½"        | 1½"        | 2"         | 2"         | 2½"   |
| Flow (m³/h) at 50 m³/h/m²       | 9.5        | 16.5       | 21         | 31         |       |
| Pool volume (m³)                | 75         | 120        | 175        | 250        |       |
| Sand load (kg)                  | 200        | 300        | 450        | 580        |       |
| Gravel load (kg)                | 16         | 35         | 65         | 135        |       |
| Grade 1 glass load (57011) (kg) | 125        | 200        | 300        | 400        |       |
| Grade 3 glass load (57013) (kg) | 25         | 25         | 50         | 75         |       |
| Maximum pressure (kg/cm²)       | 2.5        |            |            |            |       |

# Aster filter - high filtration with nozzle plate

## DESCRIPTION

Filter laminated in polyester and fibreglass. Optional Ø 200mm sand discharge at bottom. Black screw-down lid ¼" water drain at bottom. Maximum pressure 2.5 bar. Maximum temperature 50°.

|                    | Code              | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------|-------------------|---------------|-----------------------|-----------------------------------|
| Ø 500 mm output 2" | 24768FT01-110 000 | 1             | 30                    | 0.46                              |
| Ø 600 mm output 2" | 24769FT01-110 000 | 1             | 40                    | 0.63                              |
| Ø 750 mm output 2" | 24770FT01-110 000 | 1             | 60                    | 0.99                              |
| Ø 900 mm output 2" | 10003FT01-110 000 | 1             | 90                    | 1.29                              |
| Ø 900 output 2½"   | 10004FT01-110 000 | 1             | 90                    | 1.29                              |

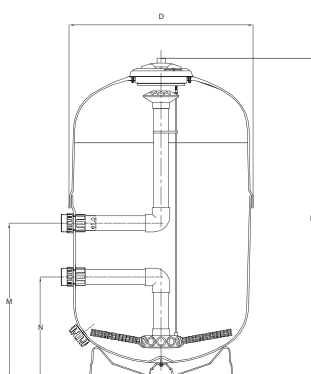
## TECHNICAL FEATURES

|                                 | 24768FT01<br>110 000 | 24769FT01<br>110 000 | 24770FT01<br>110 000 | 10003FT01<br>110 000 | 10004FT01<br>110 000 |
|---------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Ø D (mm)                        | 500                  | 600                  | 750                  | 900                  |                      |
| H (mm)                          | 1365                 | 1370                 | 1435                 | 1400                 | 1435                 |
| M (mm)                          | 605                  | 605                  | 665                  | 825                  | 865                  |
| N (mm)                          | 480                  | 480                  | 435                  | 595                  |                      |
| P (mm)                          | 400                  | 490                  | 625                  | 705                  |                      |
| Connections                     | 1½"                  | 1½"                  | 2"                   | 2"                   | 2½"                  |
| Flow (m³/h) at 50 m³/h/m²       | 9.5                  | 16.5                 | 21                   | 31                   |                      |
| Pool volume (m³)                | 75                   | 120                  | 175                  | 250                  |                      |
| Sand load (kg)                  | 200                  | 300                  | 450                  | 580                  |                      |
| Gravel load (kg)                | 16                   | 35                   | 65                   | 135                  |                      |
| Grade 1 glass load (57011) (kg) | 125                  | 200                  | 300                  | 400                  |                      |
| Grade 3 glass load (57013) (kg) | 25                   | 25                   | 50                   | 75                   |                      |
| Maximum pressure (ka/cm²)       | 2.5                  |                      |                      |                      |                      |



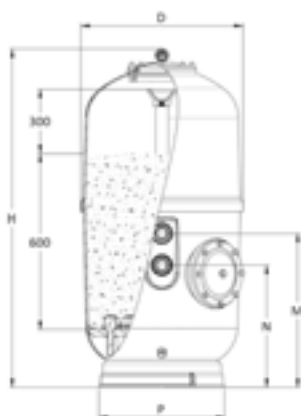
Complies with Standard  
EN 16713-01

Filtration bed  
0.8 m



Complies with Standard  
EN 16713-01

Filtration bed  
0.6 m



- Filters made of fiberglass and polyester resin with internal components and accessories in high quality engineering plastics.
- Thanks to its double coating, the resulting body is extremely resistant, durable and reliable.
- Compatible with sand and glass, among others (see page 189).
- They comply with filtration requirements as per standard EN 16713-1.

## Berlin filter

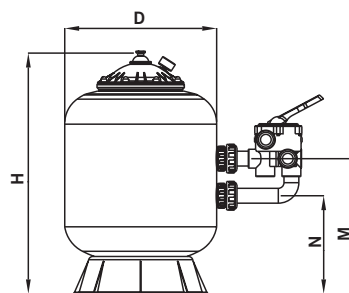
**ASTRAL**POOL

### DESCRIPTION

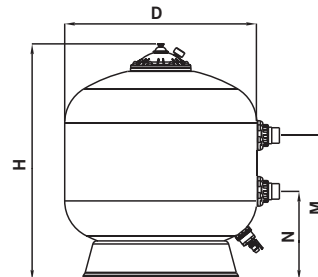
Ø 230mm screw-down lid, injection-moulded. Fitted with manual air and water bleed valves, a pressure gauge and a side mounted multiport valve. Maximum filtration speed ( $\text{m}^3/\text{h}/\text{m}^2$ ) Complies with filtration requirements as per standard EN 16713-1. Sand and glass compatible (see page 189).

|                                                                        | Code  | Standard Pack | Standard weight in kg | Standard volume in $\text{m}^3$ |
|------------------------------------------------------------------------|-------|---------------|-----------------------|---------------------------------|
| <b>With multiport valve:</b>                                           |       |               |                       |                                 |
| 9000 l/h Ø 500 mm outlet 1½"                                           | 00541 | 1             | 17.3                  | 0.24                            |
| 14000 l/h Ø 600 mm outlet 1½"                                          | 00542 | 1             | 21.8                  | 0.37                            |
| 21000 l/h Ø 750 mm outlet 2"                                           | 00543 | 1             | 35.1                  | 0.65                            |
| <b>Without multiport valve:</b>                                        |       |               |                       |                                 |
| 30000 l/h Ø 900 mm outlet 2½"                                          | 00544 | 1             | 53.4                  | 1.01                            |
| 30000 l/h Ø 900 mm outlet 2"                                           | 15397 | 1             | 53.4                  | 1.01                            |
| 30000 l/h Ø 900 mm outlet 2" (4 bar)                                   | 28474 | 1             | 67.0                  | 1.01                            |
| <b>Without multiport valve and with Ø 400 mm polyester and FV lid:</b> |       |               |                       |                                 |
| 43000 l/h Ø 1050 mm outlet Ø 75 mm                                     | 00545 | 1             | 110.0                 | 1.92                            |
| 56000 l/h Ø 1200 mm outlet Ø 90 mm                                     | 00546 | 1             | 140.0                 | 2.70                            |

\* Figures without valve



With multiport valve



Without multiport valve



Complies with Standard  
EN 16713-01

### TECHNICAL FEATURES

|                                                                       | With multiport valve |        |         | Without multiport valve |       |       |                 |
|-----------------------------------------------------------------------|----------------------|--------|---------|-------------------------|-------|-------|-----------------|
|                                                                       | 00541                | 00542  | 00543   | 00544                   | 15397 | 28474 | 00545 00546     |
| Ø D (mm)                                                              | 500                  | 600    | 750     | 900                     | 900   | 900   | 1050 1200       |
| H (mm)                                                                | 805                  | 910    | 1050    | 1145                    | 1135  | 1135  | 1300 1450       |
| M (mm)                                                                | 450                  | 505    | 610     | 685                     | 635   | 635   | 810 870         |
| N (mm)                                                                | 325                  | 380    | 380     | 415                     | 405   | 405   | 500 560         |
| Connections                                                           | 1½"                  | 1½"    | 2"      | 2½"                     | 2"    | 2"    | *D75 **D90      |
| Flow ( $\text{m}^3/\text{h}$ ) at 50 $\text{m}^3/\text{h}/\text{m}^2$ | 9                    | 14     | 21      | 30                      | 30    | 30    | 43 56           |
| Pool volume ( $\text{m}^3$ )                                          | 50-75                | 75-115 | 115-170 | 170-240                 | -     | -     | 240-350 350-450 |
| Sand load (kg)                                                        | 100                  | 175    | 300     | 525                     | 525   | 525   | 575 800         |
| Gravel load (kg)                                                      | -                    | -      | -       | -                       | -     | -     | 300 300         |
| Grade 1 glass load (57011) (kg)                                       | 75                   | 150    | 200     | 350                     | 350   | 350   | 600 825         |
| Grade 3 glass load (57013) (kg)                                       | 0                    | 0      | 50      | 75                      | 75    | 75    | 175 200         |
| Maximum pressure ( $\text{kg}/\text{cm}^2$ )                          | 2.5                  | 2.5    | 2.5     | 2.5                     | 2.5   | 4     | 2.5 2.5         |
| Net weight (kg)                                                       | 15.3                 | 19.8   | 33.1    | 51.4                    | 51.4  | 51.4  | 100 130         |
| Package volume ( $\text{m}^3$ )                                       | 0.35                 | 0.37   | 0.65    | 1.01                    | 1.01  | 1.01  | 1.92 2.70       |

# Galactic monoblock



## DESCRIPTION

Filter made made from high resistant blow-molded thermoplastic.

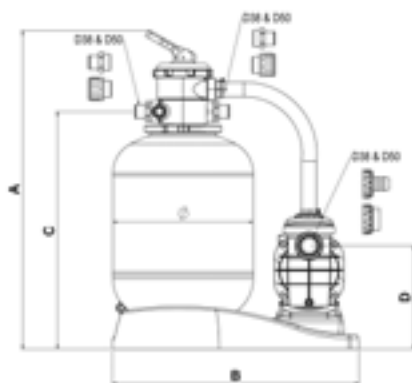
Includes 6-ways multiport valve, pressure gauge, manual air purge, water purge, compact self-priming pump with electrical cord and plug, hose, fittings, base and accessories to completely assembly the whole set.

Maximum working pressure 2,4 bars.

Fittings included, D38 and D50mm, for a maximum versatility to install.

Complies with filtration requirements as per standard EN 16713-1.

|                             | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------|-------|---------------|-----------------------|-----------------------------------|
| Ø380 - 5 m <sup>3</sup> /h  | 74471 | 1             | 20                    | 0.33                              |
| Ø400 - 6 m <sup>3</sup> /h  | 74472 | 1             | 20.5                  | 0.33                              |
| Ø500 - 8 m <sup>3</sup> /h  | 74473 | 1             | 24                    | 0.37                              |
| Ø500 - 10 m <sup>3</sup> /h | 74474 | 1             | 25.5                  | 0.37                              |
| Ø600 - 12 m <sup>3</sup> /h | 74475 | 1             | 29                    | 0.42                              |
| Ø600 - 14 m <sup>3</sup> /h | 74476 | 1             | 30                    | 0.42                              |



## TECHNICAL FEATURES

|        | 74471 | 74472 | 74473 | 74474 | 74475 | 74476 |
|--------|-------|-------|-------|-------|-------|-------|
| Ø (mm) | 380   | 400   | 500   | 500   | 600   | 600   |
| A (mm) | 860   | 905   | 975   | 975   | 1.030 | 1.030 |
| B (mm) | 710   | 710   | 830   | 830   | 830   | 830   |
| C (mm) | 635   | 650   | 740   | 740   | 816   | 816   |
| D (mm) | 295   | 295   | 295   | 295   | 295   | 295   |

## TECHNICAL FEATURES

| CODE  | FLOW<br>m <sup>3</sup> /h | Ø FILTER<br>mm | PUMP POWER<br>HP | Ø FITTINGS<br>mm | SAND<br>kg* | BOX    |             |
|-------|---------------------------|----------------|------------------|------------------|-------------|--------|-------------|
|       |                           |                |                  |                  |             | WEIGHT | DIMENSIONS  |
|       |                           |                |                  |                  |             | Kg     | mm          |
| 74471 | 5                         | 380            | 1/3              | 38 / 50          | 40          | 20     | 790x600x700 |
| 74472 | 6                         | 400            | 1/3              | 38 / 50          | 40          | 20.5   |             |
| 74473 | 8                         | 500            | 1/2              | 38 / 50          | 100         | 24     | 870x600x715 |
| 74474 | 10                        | 500            | 3/4              | 38 / 50          | 100         | 25.5   |             |
| 74475 | 12                        | 600            | 3/4              | 38 / 50          | 150         | 29     | 870x600x800 |
| 74476 | 14                        | 600            | 1                | 38 / 50          | 150         | 30     |             |

\* Sand not supplied.

**MONOBLOCKS**

# SkyPool filter monoblock

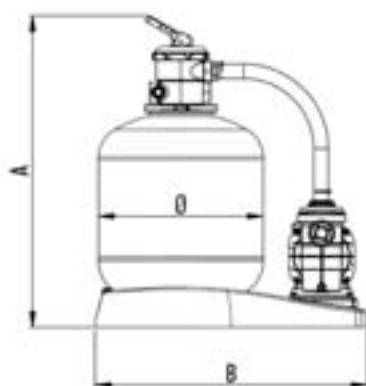
**with top outlet**


Complies with Standard  
EN 16713-01

**DESCRIPTION**

Made from plastic with a clamp lid, multi-way valve, pressure gauge, manual air outlet and water purge. White. Injection-moulded black base. Maximum working pressure: 2 kg/cm<sup>2</sup>. Complies with filtration requirements as per standard EN 16713-1.

|                      | Code   | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------|--------|---------------|-----------------------|-----------------------------------|
| Ø 300 mm - P-XPRT-4  | M00504 | 1             | 12                    | 0.11                              |
| Ø 400 mm - P-XPRT-6  | M00505 | 1             | 14                    | 0.22                              |
| Ø 400 mm - P-XPRT-8  | M00506 | 1             | 15                    | 0.22                              |
| Ø 500 mm - P-XPRT-10 | M00507 | 1             | 20                    | 0.28                              |
| Ø 500 mm - P-XPRT-14 | M00661 | 1             | 22                    | 0.28                              |


**TECHNICAL FEATURES**

| Top monobloc                                         | SkyPool / P-XPRT |         |         |          |          |
|------------------------------------------------------|------------------|---------|---------|----------|----------|
|                                                      | M00504           | M00505  | M00506  | M00507   | M00661   |
| A (mm)                                               | 640              | 760     | 760     | 840      | 840      |
| B (mm)                                               | 520              | 830     | 830     | 830      | 830      |
| Ø (mm)                                               | 300              | 400     | 400     | 500      | 500      |
| Pump (HP)                                            | P-XPRT4          | P-XPRT6 | P-XPRT8 | P-XPRT10 | P-XPRT14 |
| Connections                                          | Ø 38             | Ø 38    | Ø 38    | 1½"      | 1½"      |
| Flow (m <sup>3</sup> /h)                             | 4                | 6       | 7       | 9        | 11       |
| Power (W)                                            | 150              | 340     | 490     | 600      | 660      |
| Filtration speed (m <sup>3</sup> /m <sup>2</sup> /h) | 60               | 50      | 60      | 50       | 60       |
| Sand 0.4-0.8 mm (Kg)                                 | ± 25             | ± 40    | ± 40    | ± 100    | ± 100    |
| Weight (Kg)                                          | 12               | 14      | 15      | 20       | 22       |
| Volume (m <sup>3</sup> )                             | 0.102            | 0.226   | 0.226   | 0.278    | 0.278    |

## Ramses in-ground compacts



### DESCRIPTION

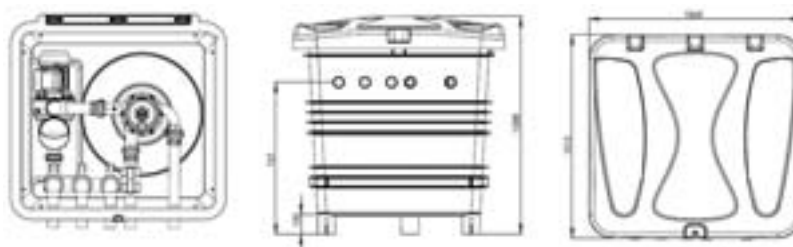
Embedded housing comprising an injection-moulded reinforced polymer body and lid. Complete and ready-assembled.

Connections: Ø50 PVC tube All pool types of up to 80m<sup>3</sup>

#### Components that include:

- 1 hp pump.
- Filter (according to model).
- 6-way top valve.
- Interior PVC connections and valves.

|                                   | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Ramses with Aster 550 filter      | 41910 | 1             | 76                    | 1.18                              |
| Ramses with Millennium 560 filter | 69829 | 1             | 68                    | 1.18                              |



## Ramses Up above-ground compacts

### DESCRIPTION

Designed for outdoor installation. Lid with reinforced edge. Size: 149 x 82 x 120.

|                          | Code         | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------------|--------------|---------------|-----------------------|-----------------------------------|
| With Aster 550 Sena 1 HP | 61423AS55001 | 1             | 75                    | 1.5                               |

See our wide range of housing according to your filtration needs



Supplied with openings for connections

## COMPACTS WITHOUT INTERIOR INSTALLATION

# In-ground compact housings

**ASTRAL**POOL 

### DESCRIPTION

Stackable to facilitate shipping and storage; streamlined interior to obtain top performance in the smallest possible space. Light cover with reinforced hinges. Prefabricated in polyester and fibreglass with a gelcoat finish. Outside of the cover in green and inside of the housing in ivory.

|                          | Code    | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------------|---------|---------------|-----------------------|-----------------------------------|
| For filters Ø 350 mm     | 00615/1 | 1             | 175                   | 2.02                              |
| For filters Ø 400-600 mm | 00616/1 | 1             | 156.5                 | 2.54                              |
| For filters Ø 650-800 mm | 00618   | 1             | 126.0                 | 3.87                              |



# Semi in-ground compact housings

**ASTRAL**POOL 

### DESCRIPTION

Prefabricated in polyester and fibreglass. Ivory. Fully opening cover.

|                          | Code    | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--------------------------|---------|---------------|-----------------------|-----------------------------------|
| For filters Ø 400-600 mm | 00619/1 | 1             | 80.0                  | 2.7                               |
| For filters Ø 600-750 mm | 00620/1 | 1             | 145.0                 | 3.2                               |



# Above ground compact housings

**ASTRAL**POOL 

### DESCRIPTION

Designed for outdoor installation. Lid with reinforced edge. Size: 149 x 82 x 120.

|                            | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------|-------|---------------|-----------------------|-----------------------------------|
| For filters Ø 400 - 600 mm | 74970 | 1             | 25                    | 0.400                             |

- A wide range of valves which offers the New Generation series, the Classic series and Flat series with 1½" and 2" valve configurations.
- The Magnum series with 2½" and 3" valves completes the range.

## Six positions multiport valve

### DESCRIPTION

A six positions multiport valve able to perform several functions in a hydraulic circuit: filtration, empty, closed, backwashing and rinsing of the filter. Its extremely functional design means that it can be fitted up to any installation. All joints will be perfectly sealed and it is easy to operate.

Its minimum friction and resistance, maximum safety were decisive factors to choose the best materials of its components: ABS body, lid and handle, PPO distributor, EPDM gaskets, metal parts in stainless steel.

### CONNECTION OPTIONS IN MULTI-PORT VALVE

| Connection options                                                                  | Connection         | Outlets      | New Generation                                                                    |                                                                                   |                                                                                   | Classic                                                                            |                                                                                     | Classic Plus                                                                        |                                                                                     | Flat                                                                                | Magnum |       |
|-------------------------------------------------------------------------------------|--------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------|
|                                                                                     |                    |              |  |  |  |  |  |  |  |  |        |       |
|                                                                                     |                    |              | 1 ½" Eco                                                                          | 1 ½"                                                                              | 2"                                                                                | 1 ½"                                                                               | 2"                                                                                  | 1 ½"                                                                                | 2"                                                                                  | 1 ½"                                                                                | 2 ½"   | 3"    |
|  | Without connection | Threaded BSP |                                                                                   |                                                                                   | 28509                                                                             | 11542                                                                              | 08938                                                                               |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       |                                                                                   |                                                                                   |                                                                                   | 00597                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|  | With connection    | Threaded BSP |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       |                                                                                   |                                                                                   |                                                                                   | 15385                                                                              | 15389                                                                               |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     | Without connection | Threaded BSP |                                                                                   |                                                                                   | 28510                                                                             | 11366                                                                              | 08939                                                                               |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|  | With connection    | Threaded BSP |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       |                                                                                   | 20569                                                                             | 28512                                                                             |                                                                                    |                                                                                     | 73950                                                                               | 74862                                                                               | 34543                                                                               | 24837  |       |
|                                                                                     |                    | Threaded NPT |                                                                                   | 22355                                                                             | 30788                                                                             | 06673-0700                                                                         | 09848                                                                               |                                                                                     |                                                                                     |                                                                                     | 24840  |       |
|                                                                                     | Without connection | Threaded BSP |                                                                                   | 23108                                                                             | 28511                                                                             |                                                                                    |                                                                                     | 76148                                                                               | 76149                                                                               | 34544                                                                               | 24838  |       |
|                                                                                     |                    | Smooth       |                                                                                   | 20043                                                                             |                                                                                   |                                                                                    |                                                                                     | 75285                                                                               |                                                                                     | 34545                                                                               |        |       |
|                                                                                     |                    | Threaded NPT |                                                                                   | 22356                                                                             | 30795                                                                             | 06595                                                                              | 07440                                                                               |                                                                                     |                                                                                     |                                                                                     | 24839  | 30798 |
|  | Without connection | Threaded BSP |                                                                                   |                                                                                   | 28513                                                                             | 11368                                                                              | 08940                                                                               |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|  | Without connection | Threaded BSP |                                                                                   |                                                                                   | 28514                                                                             |                                                                                    |                                                                                     | 76150                                                                               | 16151                                                                               |                                                                                     |        | 28515 |
|                                                                                     |                    | Smooth       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
| Top                                                                                 | Without connection | Threaded BSP |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |       |
|                                                                                     |                    | Smooth       | 32583                                                                             | 20565                                                                             | 33968                                                                             | 65216                                                                              | 22490                                                                               |                                                                                     |                                                                                     | 34546                                                                               |        |       |
|                                                                                     |                    | Threaded NPT |                                                                                   | 22358                                                                             |                                                                                   |                                                                                    | 22492                                                                               |                                                                                     |                                                                                     |                                                                                     |        |       |

## Classic Plus

- Manual multiport valves with six channels to carry out different functions in an hydraulic circuit.
- Connection to filter through a sweep elbow instead of a 90° elbow and new design to offer a reduced pressure loss.
- Diverter gasket placed in the diverter instead of the body to improve performance and maintenance.



## Classic Plus

|                                                                            | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------------------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>1½" and 2" multiport valve with filter connections</b>                  |       |               |                       |                                   |
| 1½" multiport valve - Configuration 3                                      | 73950 | 6             | 13                    | 0.079                             |
| 2" multiport valve - Configuration 3                                       | 74862 | 6             | 24                    | 0.079                             |
| <b>1½" and 2" multiport valve without filter connections</b>               |       |               |                       |                                   |
| 1½" multiport valve - Configuration 3                                      | 76148 | 6             | -                     | 0.079                             |
| 2" multiport valve - Configuration 3                                       | 76149 | 6             | -                     | 0.079                             |
| <b>1½" and 2" multiport valve with filter connections - WHITE</b>          |       |               |                       |                                   |
| 1½" multiport valve - Configuration 3                                      | 74999 | 6             | 13                    | 0.079                             |
| 2" multiport valve - Configuration 3                                       | 76146 | 6             | 24                    | 0.079                             |
| <b>1½" multiport valve without filter connections - smooth unions</b>      |       |               |                       |                                   |
| 1½" multiport valve - Configuration 3                                      | 75285 | 6             | -                     | 0.079                             |
| <b>1½" multiport valve with filter connections - smooth unions - WHITE</b> |       |               |                       |                                   |
| 1½" multiport valve - Configuration 3                                      | 76147 | 6             | 13                    | 0.079                             |
| <b>1½" and 2" multiport valve without filter connections</b>               |       |               |                       |                                   |
| 1½" multiport valve - Configuration 5                                      | 76150 | 6             | 13                    | 0.079                             |
| 2" multiport valve - Configuration 5                                       | 76151 | 6             | 13                    | 0.079                             |

### CORRESPONDENCE CHART (VALVES COMPLETELY COMPATIBLE IN THE INSTALLATION)

| CLASSIC PLUS CODE | CLASSIC CODE (discontinued) |
|-------------------|-----------------------------|
| 73950             | 00599                       |
| 74862             | 07444                       |
| 76148             | 14909                       |
| 76149             | 07441                       |
| 74999             | 06563                       |
| 76146             | 11156                       |
| 75285             | 00598                       |
| 76147             | 61306                       |

## Classic

- Manual multiport valves with six channels to carry out different functions in an hydraulic circuit.
- Its design, basically functional, offers a wide range of possibilities of connection to any installation, assuring perfect water-tightness and comfortable handling.

## Classic

### 1½" and 2" multiport valve with filter connections



|                                                                                               | Code       | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-----------------------------------------------------------------------------------------------|------------|---------------|-----------------------|-----------------------|
| 1½" NPT multiport valve - Configuration 3                                                     | 06673-0700 | 6             | 15.5                  | 0.079                 |
| 2" NPT multiport valve- Configuration 3                                                       | 09848      | 6             | 22.7                  | 0.150                 |
| 2" multiport valve - Configuration 3 (special distance between con. 270mm - for filter 08133) | 21263      | 6             | 22.2                  | 0.165                 |

## Classic

### 1½" and 2" multiport valve



|                                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-------------------------------------------|-------|---------------|-----------------------|-----------------------|
| 1½" multiport valve - Configuration 1     | 00597 | 6             | 12.2                  | 0.079                 |
| 1½" NPT multiport valve - Configuration 3 | 06595 | 6             | 12.1                  | 0.079                 |
| 2" NPT multiport valve - Configuration 3  | 07440 | 6             | 19.9                  | 0.150                 |

## Classic

### 2" TOP multiport valve



#### DESCRIPTION

6-way TOP multiport valve for residential pools. Body, cover and handle injected in ABS.

|                            | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|----------------------------|-------|---------------|-----------------------|-----------------------|
| Top 1½" Multiport valve    | 65216 | 6             | 14.6                  | 0.123                 |
| Top 2" Multiport valve     | 22490 | 1             | 3.45                  | 0.028                 |
| 2" TOP multiport valve NPT | 22492 | 1             | 3.45                  | 0.028                 |



65216



22490

### New Generation

- Manual multiport valves which incorporate a bayonet closing system (replacing bolts).
- This eases dismantling for maintenance and prevents rust.
- The range includes the 1½" and 2" versions, including a "Top Eco" version available in 1½".

## New generation

### Selector valve with coupling to filter



|                                                                                     | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-------------------------------------------------------------------------------------|-------|---------------|-----------------------|-----------------------|
| Configuration 3 - 1½"                                                               | 20569 | 6             | 14.0                  | 0.079                 |
| Configuration 3 - 2"                                                                | 28512 | 6             | 26.4                  | 0.165                 |
| Configuration 3 - 1½" NPT                                                           | 22355 | 6             | 14.0                  | 0.079                 |
| Configuration 3 - 2" NPT                                                            | 30788 | 6             | 26.4                  | 0.165                 |
| Configuration 3 - 2"<br>(special distance between<br>con. 270mm - for filter 08133) | 59968 | 6             | 24.6                  | 0.165                 |

## New generation

### 1½" and 2" multiport valve



|                                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-------------------------------------------|-------|---------------|-----------------------|-----------------------|
| Multiport valve 1½" - Configuration 3     | 20043 | 6             | 11.5                  | 0.079                 |
| <b>Multiport valve 2":</b>                |       |               |                       |                       |
| Configuration 1                           | 28509 | 6             | 22.3                  | 0.165                 |
| Configuration 2                           | 28510 | 6             | 22.3                  | 0.165                 |
| Configuration 3                           | 28511 | 6             | 22.3                  | 0.165                 |
| Configuration 4                           | 28513 | 6             | 22.3                  | 0.165                 |
| Configuration 5                           | 28514 | 6             | 22.3                  | 0.165                 |
| Multiport valve 1½" NPT - Configuration 3 | 22356 | 6             | 11.5                  | 0.079                 |
| Multiport valve 2" NPT - Configuration 3  | 30795 | 6             | 22.3                  | 0.165                 |

## New generation

### 1½" and 2" multiport valve. Top Config.



|                                            | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|--------------------------------------------|-------|---------------|-----------------------|-----------------------|
| Top 1½" Multiport valve                    | 20565 | 6             | 12.10                 | 0.079                 |
| Top 2" Multiport valve                     | 33968 | 1             | 3.95                  | 0.028                 |
| Top 1½" NPT Multiport valve                | 22358 | 6             | 12.10                 | 0.079                 |
| Top 1½" Multiport valve (for Aster filter) | 31993 | 6             | 11.8                  | 0.124                 |
| Top 2" Multiport valve (for Aster filter)  | 33969 | 1             | 3.85                  | 0.028                 |

## New generation

### 1½" multiport valve. Top ECO version



#### DESCRIPTION

6-way multiport valve for above ground pool filters where the pressure does not exceed 1.5 bar, of maximum diameter 380 mm. Bayonet closing system.

|                                      | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|--------------------------------------|-------|---------------|-----------------------|-----------------------|
| 1½" multiport valve. Top ECO version | 32583 | 6             | 8.83                  | 0.082                 |

## Flat

- Multiport valve which features a special compact look thanks to its single-level design (compared to the normal twin-level set-up in other multiport valves).
- This reduced size makes the equipment especially suitable in installations where space is at a premium, such as in filter housing or monoblocks.



## Flat

### 1 1/2" lateral multiport valve with filter connections



|                 | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------|-------|---------------|-----------------------|-----------------------------------|
| Configuration 3 | 34543 | 6             | 9.3                   | 0.08                              |



## Flat

### 1 1/2" lateral multiport valve - Flat



|                                              | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| Configuration 3 (bottom port threaded)       | 34544 | 6             | 9.3                   | 0.08                              |
| Configuration 3 (bottom port solvent socket) | 34545 | 6             | 9.3                   | 0.08                              |



## Flat

### 1 1/2" TOP multiport valve - Flat



|  | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|--|-------|---------------|-----------------------|-----------------------------------|
|  | 34546 | 6             | 9.3                   | 0.08                              |

## Magnum

- Specially designed to support high working pressures and connection to large filters which require special connections.
- Choose from the models offered: 2 ½", 3" and 4" multiport valves.

## Magnum

### 2 ½" multiport valve with filter connections

**ASTRALPOOL** 

#### DESCRIPTION

Multiport valve with filter connections.

|                                        | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|----------------------------------------|-------|---------------|-----------------------|-----------------------|
| 2 ½" multiport valve - Configuration 3 | 24837 | 1             | 9.5                   | 0.060                 |
| 2 ½" NPT multiport valve - Config. 3   | 24840 | 1             | 9.5                   | 0.060                 |



## Magnum

### 2 ½" multiport valve

**ASTRALPOOL** 

#### DESCRIPTION

Filter inlet from the side and outlet from the bottom. With threaded outlets.

|                                        | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|----------------------------------------|-------|---------------|-----------------------|-----------------------|
| 2 ½" multiport valve - Configuration 3 | 24838 | 1             | 8.2                   | 0.061                 |
| 2 ½" NPT multiport valve - Config. 3   | 24839 | 1             | 8.2                   | 0.061                 |



## Magnum

### 3" multiport valve

**ASTRALPOOL** 

#### DESCRIPTION

Side mounted multiport valve for connecting to filters. Body and cover injected in ABS with fiberglass. Handle injected in ABS. Sealing system by stainless steel screws. Supplied with two plugs so that the customer can adapt the valve to the most suitable configuration.

|                        | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|------------------------|-------|---------------|-----------------------|-----------------------|
| 3" multiport valve     | 28515 | 1             | 9.8                   | 0.064                 |
| 3" NPT multiport valve | 30798 | 1             | 9.8                   | 0.064                 |



## MULTI-PORT VALVES

# VRAC Flat

1½" automatic multiport system valve



## DESCRIPTION

Basic automatic multiport valve model that stands out for its easy operation.

Voltage 230/115 volts. Controls filtration, backwashing, rinsing and emptying.

|                                       | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|---------------------------------------|-------|---------------|-----------------------|-----------------------|
| TOP 1½ multiport valve with actuator  | 43512 | 1             | 4.1                   | 0.02                  |
| SIDE 1½ multiport valve with actuator | 43513 | 1             | 3.9                   | 0.02                  |

# VRAC III

automatic multiport valve



## DESCRIPTION

Improved automatic multiport valve operated via button keypad. It makes possible to control filtration, backwashing, rinsing, emptying, recirculation and closed positions.

### NEW in 2021!

Better features to the automatic multiport valve replacing the pressure switch for an analog pressure sensor.

- Easy program of the pressure set point for backwashing - Pressing a button.
- Avoid corrosion - No metallic elements.
- Friendly set up Fluidra Connect Box - System VRAC Basic III
- Adaptable: For using in all devices with a media filter, and it is quick and easy to install.
- Comfort: With a simple programming using the keypad, you will receive a fully automated filtration for your pool.
- Hygiene: You will obtain an optimal water quality for swimming, optimizing the wash cycles (daily, weekly or by pressure monitoring).
- Safety: The automatic valve continuously monitors the filtration system and the valve, thus preventing potential breakdowns. New power surge protection. Spring coated to prevent rusting.

LED lights for quick look of basic information.

|                                   | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|-----------------------------------|-------|---------------|-----------------------|-----------------------|
| Basic 1½" side mounted, Config. 3 | 72433 | 1             | 4.27                  | 0.023                 |
| Basic 2" side mounted, Config. 3  | 72434 | 1             | 5.75                  | 0.033                 |



A multiport safety valve  
(code 41898 or 41899)  
is recommended.

### Substituted codes:

72433 in substitution of  
70768 and 57186.

72434 in substitution of  
70769 and 57187

# Hydraulic safety valve



## DESCRIPTION

The 1½" hydraulic safety valve in the drain is specially designed for installation in the drain outlet of an automatic multiport valve on a pool sand filter.

Using it prevents water loss when the valve changes its working position or when the electricity flow fails and the valve remains in a position in which it could empty the pool.

It is recommended in installations with SYSTEM VRAC multiport valves.

|                                       | Code  | Standard Pack | Standard weight in kg | Standard volume in m³ |
|---------------------------------------|-------|---------------|-----------------------|-----------------------|
| With 50 mm straight double connection | 41898 | 2             | 1.8                   | 0.02                  |
| With 1½" BSP double pipe connection   | 41899 | 2             | 1.8                   | 0.02                  |

## Gauge panel unit



### DESCRIPTION

Including air vents.

|                                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-------------------------------------------|-------|---------------|-----------------------|-----------------------------------|
| With pressure gauges 3 kg/cm <sup>2</sup> | 00729 | 1             | 1                     | 0.007                             |
| With pressure gauges 6 kg/cm <sup>2</sup> | 00730 | 1             | 1                     | 0.007                             |

## OC-1 filtration media



### DESCRIPTION

#### OC-1 filtration load: The future of pool filtration

OC refers to Open Cell and OC-1 is a mechanical filter that uses open-cell filtration technology to filter water with a high quality, increasing the water saving and energy potential. The filtration media is an extruded plastic compound comprising a base of High Density Polyethylene with Calcium Carbonate.

- Saves water: exclusive filtration method that reduces water consumption by more than 40%.
- Saves power: lets you use a smaller pump or lower the power to get the same flow you would with traditional filtration media.
- Saves time: OC-1 reduces backwash frequency to less than a third of traditional methods, meaning more leisure time for you.
- The OC-1 media has been tested in accordance with current European standard EN16713-1.

|                               | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-------------------------------|-------|---------------|-----------------------|-----------------------------------|
| OC-1 50L filtration media bag | 69752 | 1             | 9.0                   | 0.05                              |
| OC-1 20L filtration media bag | 69753 | 1             | 3.6                   | 0.02                              |

## Active Clear Glass



### DESCRIPTION

AstralPool sells Active Clear Glass filtration material.

Active Clear Glass has the following benefits:

- More efficient and ecological filtration with water and energy savings.
- Higher filtration capacity with a cleaner bed that traps bacteria.

|                     | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------|-------|---------------|-----------------------|-----------------------------------|
| <b>Granulometry</b> |       |               |                       |                                   |
| 0.5 mm - 1.0 mm     | 57011 | 1             | 25.0                  | 0.667                             |
| 1.0 mm - 3.0 mm     | 57012 | 1             | 25.0                  | 0.667                             |
| 3.0 mm - 7.0 mm     | 57013 | 1             | 25.0                  | 0.667                             |

### TECHNICAL FEATURES

|        |       | % Volume of the filter bed |                    |                    |
|--------|-------|----------------------------|--------------------|--------------------|
|        | Code  | Range                      | Filters D < 900 mm | Filters D > 900 mm |
| Range1 | 57011 | 0.5 - 1.0 mm               | 0.8                | 0.6                |
| Range2 | 57012 | 1.0 - 3.0 mm               | 0                  | 0.2                |
| Range3 | 57013 | 3.0 - 7.0 mm               | 0.2                | 0.2                |

## Silex



### DESCRIPTION

Other silex grades available to order.

25 Kg bag.

|                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------|-------|---------------|-----------------------|-----------------------------------|
| Granulometry 0.4 - 0.8 mm | 00596 | 1             | 25                    | 0.667                             |

## Gravel



### DESCRIPTION

Please ask for a quotation for other grades.

25 Kg bag.

|                       | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------|-------|---------------|-----------------------|-----------------------------------|
| Granulometry 1 - 2 mm | 10697 | 1             | 25                    | 0.667                             |
| Granulometry 3 - 5 mm | 11346 | 1             | 25                    | 0.667                             |

## Anthracite



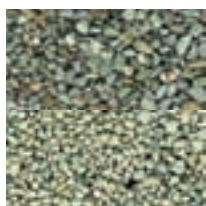
### DESCRIPTION

Please ask for a quotation for other grades.

25 Kg bag.

|                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------|-------|---------------|-----------------------|-----------------------------------|
| Granulometry 0.8 - 1.6 mm | 03696 | 1             | 25                    | 0.8                               |

## Zeolite



### DESCRIPTION

Natural porous material that has higher filtration qualities than the normal substrate. It can be compared to that of diatoms, at a much more competitive price and longer duration.

|                             | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------|-------|---------------|-----------------------|-----------------------------------|
| Zeolite standard 0.5 - 1 mm | 25845 | 1             | 25                    | -                                 |
| Zeolite standard 1-2 mm     | 25846 | 1             | 30                    | 0.023                             |
| Zeolite standard 2-5 mm     | 25847 | 1             | 30                    | 0.023                             |

## Diatomaceous earth



|                           | Code  | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|---------------------------|-------|---------------|-----------------------|-----------------------------------|
| Celatom FW-60. 20 Kgs bag | 03247 | 1             | 20                    | 0.60                              |
| Celite 545. 23 Kgs bag    | 03246 | 1             | 23                    | 0.60                              |



# FILTERS

## A COMPLETE FILTRATION RANGE

### > A FILTER FOR EVERY POOL

Central component of the filtration system, **the filter contains a filtration medium (that may be sand, glass, cartridge or another material, depending on the filter type)**. So, debris and impurities are trapped in the filter tank.

An efficient filtration system is **essential for the effectiveness of water treatment**.

**Zodiac® offers 2 filter ranges to best meet varying user needs:**

### > CS CARTRIDGE FILTERS

- + very compact filters that can be installed in confined technical rooms
- + ultra-fine filtration up to 15-20 µm for translucent water
- + saves water during maintenance (no backwash)
- + no need to connect to the drain

**3 YEAR**  
WARRANTY  
ALL PARTS

**5 YEAR**  
WARRANTY  
ON TANKS

**ALL TYPES OF**  
SWIMMING  
POOLS

**FINE**  
FILTRATION

**ECO**  
FRIENDLY

**Water**  
Conservation

### > MS MEDIA FILTERS

- + long-lasting glass-fibre reinforced polyester filters
- + designed to work with sand and filtration glass (Crystal Clear)
- + easy maintenance

**3 YEAR**  
WARRANTY  
ALL PARTS

**10 YEAR**  
WARRANTY  
ON TANKS

**ALL TYPES OF**  
SWIMMING  
POOLS

**EASY**  
MAINTENANCE



### COMPARATIVE TABLE OF THE RANGE

#### CS

Eco-friendly cartridge filters for fine filtration

#### MS

Simple and long-lasting sand filters

|                   |                          |                             |
|-------------------|--------------------------|-----------------------------|
| Warranty          | 5 years (tank) / 3 years | 10 years (tank) / 3 years   |
| Easy installation | Yes (VersaPlumb® kit)    | -                           |
| Filtration medium | CS cartridge             | Glass or sand               |
| Filtration level  | 15 - 20 microns          | 20 - 50 microns             |
| Number of models  | 2                        | 5                           |
| Footprint         | 37 cm                    | 47-95 cm                    |
| Max. pool volume  | 170 m³                   | 200 m³                      |
| Pressure gauge    | Yes                      | Yes                         |
| Multiway valve    | N / A                    | Yes                         |
| Drain             | Yes (+ connection kit)   | Yes, double (media + water) |



## FILTERS

# CS



**3 YEAR**  
WARRANTY



**5 YEAR**  
WARRANTY  
ON TANK



- + Ultra fine filtering
- + Easy maintenance and water savings
- + Adapted to any pool pad

### ACCESSORIES INCLUDED IN THE PACK

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 15-20 µm filtering cartridge                                                      | 63/50mm union tailpieces                                                          | 63/50mm union tailpieces                                                           | Pressure gauge                                                                      | Air relief                                                                          |

### OPTIONAL ACCESSORIES

### ASSOCIATED PRODUCTS

|                 |                  |                  |
|-----------------|------------------|------------------|
| VersaPlumb® Kit | Cartridge CS 100 | Cartridge CS 150 |
| WF000026        | R0462201         | R0462301         |

### PRODUCT REFERENCES

| Model          | CS 100   | CS 150   |
|----------------|----------|----------|
| Standard Model | WF000024 | WF000025 |

### DESCRIPTION

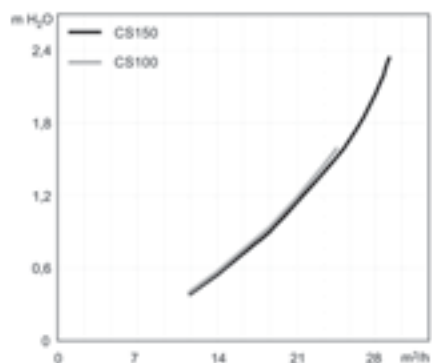
| Model                   | CS 100                               | CS 150 |
|-------------------------|--------------------------------------|--------|
| Tank material           | Fiber glass reinforced polypropylene |        |
| Pressure gauge position | Onto the top cover                   |        |
| Connections             | 63/50mm union tailpieces             |        |
| Drain                   | 63mm, 63/50mm plumbing kit provided  |        |

### TECHNICAL SPECIFICATIONS

| Model                                                | CS 100                                                         | CS 150 |
|------------------------------------------------------|----------------------------------------------------------------|--------|
| Filtration capacity m <sup>3</sup> (6 h/day)         | 130                                                            | 170    |
| Max flow rate (m <sup>3</sup> /h)                    | 22.7                                                           | 28.4   |
| Filtering area (m <sup>2</sup> )                     | 9.3                                                            | 14     |
| Cartridge layers number                              | 143                                                            | 215    |
| Filtration speed (m <sup>3</sup> /h/m <sup>2</sup> ) | 2.4                                                            | 2.1    |
| Filtration speed at 1 m/s                            | 0.64 m <sup>3</sup> /h/m <sup>2</sup>                          |        |
| Working pressure (bar or kg/cm <sup>2</sup> )        | 0.2 - 0.8 (variable speed pump); 0.4 - 1.2 (single speed pump) |        |
| Maximum pressure (bar or kg/cm <sup>2</sup> )        | 3.5                                                            |        |

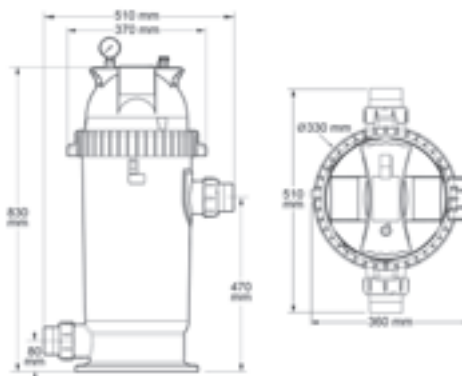
## PERFORMANCE

- CS filter head losses expressed in meters of water: 1 m H<sub>2</sub>O = 0.1 bar



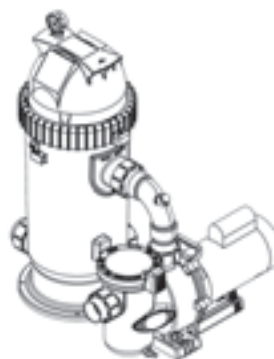
## DIMENSIONS AND WEIGHT

| Model                                   | CS 100                 | CS 150 |
|-----------------------------------------|------------------------|--------|
| Weight (filter + cartridge)             | 14 kg                  | 13 kg  |
| Footprint (filter foot diameter)        | 33 cm                  |        |
| Overall height (with pressure gauge)    | 92 cm                  |        |
| Needed clearance (to replace cartridge) | 44 cm above the filter |        |



## INSTALLATION

- Optional Versa Plumb® kit allows a quick, compact and efficient connection between CS filter and any Zodiac FloPro™ pump.
- The Versa Plumb® sweep elbow is equipped with a 1/2" thread to install an earthing anode for example (see earthing anode kit in Water Treatment pages - part R0673800).



# FILTERS

## MS



**3 YEAR**  
WARRANTY



**10 YEAR**  
WARRANTY  
ON TANK



- + Easy to install
- + Efficient filtration
- + Easy maintenance

### ACCESSORIES INCLUDED IN THE PACK

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| "Classic" multiport valve kit                                                     | Pressure gauge & air relief kit                                                   | Bolts kit                                                                          | Media filling cap                                                                   |

### ASSOCIATED PRODUCTS

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| Crystal Clear<br>0,7/1,3 mm - Glass media | Crystal Clear<br>1,0/3,0 mm - Glass media |
| WF000063                                  | WF000064                                  |

### PRODUCT REFERENCES

| Model          | MS 470   | MS 530   | MS 650   | MS 800   | MS 950   |
|----------------|----------|----------|----------|----------|----------|
| Standard Model | WF000094 | WF000095 | WF000096 | WF000097 | WF000098 |

### DESCRIPTION

| Model                   | MS 470                                                                           | MS 530 | MS 650 | MS 800 | MS 950 |
|-------------------------|----------------------------------------------------------------------------------|--------|--------|--------|--------|
| Tank material           | Fiberglass reinforced polyester                                                  |        |        |        |        |
| Multiport valve         | 6-way side mount valve (filtration, backwash, rinse, drain, circulation, closed) |        |        |        |        |
| Pressure gauge position | Onto the top cover using a T-shape adaptor threaded into the lid                 |        |        |        |        |
| Connections             | All connections are threaded for an easy maintenance (multiport valve & piping)  |        |        |        |        |
| Drain                   | 3/8" (water) / 2 1/2" (filter media, except for MS 470)                          |        |        |        |        |

### TECHNICAL SPECIFICATIONS

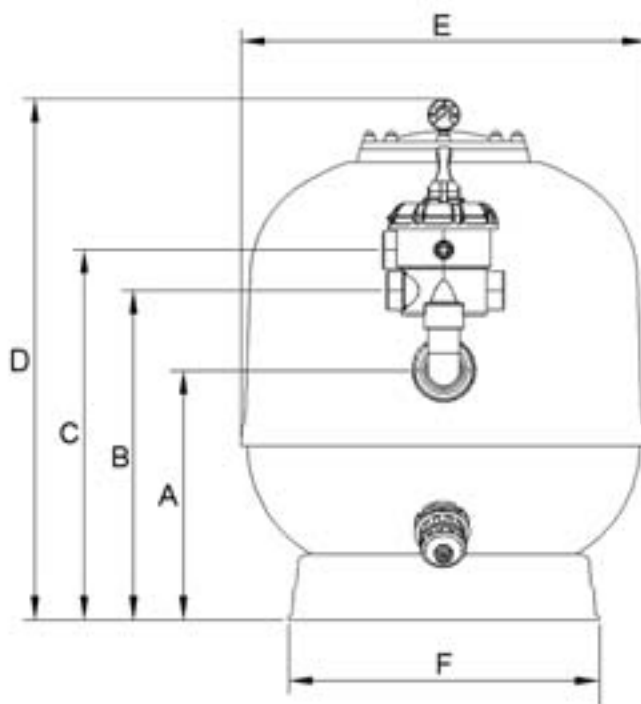
| Model                                     | MS 470                                                         | MS 530 | MS 650 | MS 800 | MS 950 |
|-------------------------------------------|----------------------------------------------------------------|--------|--------|--------|--------|
| Tank diameter (mm)                        | 475                                                            | 532    | 645    | 798    | 950    |
| Max flow rate (m³/h)*                     | 8                                                              | 10     | 16     | 23.5   | 33     |
| Filtering area (m²)                       | 0.16                                                           | 0.2    | 0.32   | 0.47   | 0.66   |
| Filtration capacity m³ (6h/day)           | 48                                                             | 60     | 96     | 140    | 200    |
| Diameter of threaded connections          | 1 ½"                                                           |        |        | 2"     |        |
| Working pressure (bar or kg/cm²)          | 0.2 - 0.8 (variable speed pump); 0.4 - 1.4 (single speed pump) |        |        |        |        |
| Maximum pressure (bar or kg/cm²)          | 2.5                                                            |        |        |        |        |
| Total weight of Crystal Clear             | 75                                                             | 90     | 135    | 270    | 420    |
| Nbr of bags - Crystal Clear<br>1.0/3.0 mm | 1                                                              |        |        | 2      | 3      |
| Nbr of bags - Crystal Clear<br>0.7/1.3 mm | 4                                                              | 5      | 8      | 16     | 25     |
| Total weight of sand                      | 85                                                             | 100    | 160    | 305    | 460    |

\* : For a 50 m³/h/m² filtration speed

**DIMENSIONS AND WEIGHT**

| Model                           |                | MS 470 | MS 530 | MS 650 | MS 800 | MS 950 |
|---------------------------------|----------------|--------|--------|--------|--------|--------|
| Clearance below valve*          |                | 310    | 320    | 375    | 390    | 420    |
| A (mm)                          |                | 340    | 350    | 405    | 430    | 460    |
| B (mm)                          |                | 465    | 475    | 530    | 660    | 690    |
| C (mm)                          |                | 529    | 539    | 594    | 736    | 766    |
| D (mm)                          |                | 705    | 745    | 815    | 984    | 1027   |
| E external (mm)                 |                | 475    | 532    | 645    | 798    | 950    |
| E internal (mm)                 |                | 450    | 510    | 635    | 770    | 920    |
| F (mm)                          |                | 347    | 400    | 490    | 625    | 705    |
| Valve connections               | Height spacing | 64     | 64     | 64     | 76     | 76     |
|                                 | Width spacing  | 74     | 74     | 74     | 79     | 79     |
|                                 | Threaded ports | 1½"    | 1½"    | 1½"    | 2"     | 2"     |
| Complete filter net weight (kg) |                | 15 kg  | 18 kg  | 21 kg  | 36 kg  | 58 kg  |

\* : Clearance below multiport valve elbow pipe to show clearance for pump installation



# FILTERING MEDIA

## Crystal Clear



- + Optimum filtration efficiency
- + Long lasting : lasts 3 times longer than sand
- + Eco-friendly : up to 75% water savings



### ASSOCIATED PRODUCTS

| MS filter            | Hydroxinator® iQ     | Hydroxinator® |
|----------------------|----------------------|---------------|
| WF000094/95/96/97/98 | WW000172/173/174/175 | (old model)   |

### PRODUCT REFERENCES

| Model          | Crystal Clear 0,7/1,3 mm | Crystal Clear 1,0/3,0 mm |
|----------------|--------------------------|--------------------------|
| Standard Model | WF000063                 | WF000064                 |

### DESCRIPTION

| Model                  | Crystal Clear 0,7/1,3 mm                                                                                                                                                          | Crystal Clear 1,0/3,0 mm |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Contents               | Filtering medium made of 100% pure glass crystals                                                                                                                                 |                          |
| Form                   | Translucent                                                                                                                                                                       |                          |
| Dosage                 | Total weight in the filter : 10% less than the equivalent in sand<br>1,0/3,0mm : sufficient to cover the filter laterals<br>0,7/1,3 mm : in addition, to make up the total weight |                          |
| Filtration efficiency  | 77,9% turbidity reduction*                                                                                                                                                        |                          |
| Bag dimensions (l x h) | 45 x 65 cm                                                                                                                                                                        |                          |
| Bag net weight         | 15 kg (= shipping unit, skus can be mixed on a pallet)                                                                                                                            |                          |

\* Turbidity reduction test carried in a lab with Crystal Clear fine, under EN 16713-1 standard ( test §7.2.4). Regulatory requirement is 50% min.



# COMMERCIAL SOLUTIONS

## FILTRATION

### 124 LAMINATED FILTERS

- 124 Artic & Artic Plus filters
- 126 Delta filters
- 128 Norma filters
- 130 Begur filters
- 132 Blanes filters
- 134 Vesubio filters
- 136 Europe 1.0 filters
- 138 Europe 1.2 filters

### 140 BOBBIN WOUND FILTERS

- 140 Praga filters
- 142 Vic filters
- 144 Oslo filters
- 146 Olot filters
- 148 Rodas 1050 - 1200 filters
- 150 Rodas 1400 - 1600 - 1800 filters
- 152 Rodas 2000 - 2350 filters
- 154 Rodas 2500 filters
- 156 Berlin filters

### 158 COMMERCIAL POOL FILTRATION

- 158 Coding
- 158 Head loss curve

### 159 FILTER MEDIA

- 159 Vertical Filter Media
- 161 Horizontal Filter Media

### 162 VALVES MANIFOLD

- 162 Valves manifold
- 163 Valves manifold Codification

### 164 REGENERATIVE MEDIA FILTERS

## LAMINATED FILTERS

### ARTIC & ARTIC PLUS FILTERS



Bed depth 1 m or 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.



Complies with Standard  
EN 16713-1

- According EN 16713-1.
- Filters are made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Maximum temperature 50°C.

BED DEPTH 1 M. / DEPTH 1.2 M.

| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Outlet Ø | Code filter            |                               |
|---------------------|-----------------|----------------------------------|----------------------------------|----------|------------------------|-------------------------------|
|                     |                 |                                  |                                  |          | ARTIC<br>Bed depth 1 m | ARTIC PLUS<br>Bed depth 1.2 m |
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | In       |                        |                               |
| 500                 | 0.19            | 50                               | 10                               | 1½"      | 34029-0100             | -                             |
| 650                 | 0.33            | 50                               | 17                               | 1½"      | 34030-0100             | 36053                         |
| 800                 | 0.50            | 50                               | 25                               | 2"       | 34031-0100             | 36054                         |
| 950                 | 0.70            | 50                               | 36                               | 2½"      | 41187                  | 41373                         |
| 1050                | 0.86            | 50                               | 44                               | 3"       | 41188                  | 36055                         |
| 1200                | 1.13            | 50                               | 57                               | 4"       | 41189                  | 36056                         |

The filter code does not include filter media

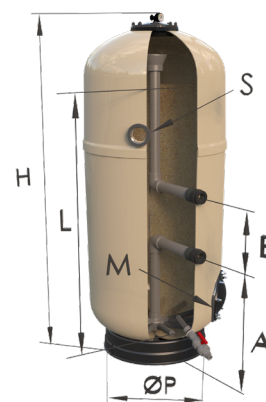
## LAMINATED FILTERS

## ARTIC &amp; ARTIC FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
on page 160



| STANDARD EQUIPMENT |              | Filter with laterals | Pressure (bar) |
|--------------------|--------------|----------------------|----------------|
| Collector system   | 0.3 mm slots | Ø 500 - Ø 1200       | 2.5            |
| Air relief         | 1/4"         | Ø 500 - Ø 1200       | 2.5            |
| Sand drain         | Ø 200        | Ø 1000 - Ø 1200      | 2.5            |
| Water drain        | 1"           | Ø 500 - Ø 950        | 2.5            |
|                    | 2.5" - 1/4"  | Ø 1000 - Ø 1200      | 2.5            |
| Top manhole        | Ø 200        | Ø 500 - Ø 950        | 2.5            |
|                    | Ø 400        | Ø 1000 - Ø 1200      | 2.5            |

| OPTIONS TABLE                          |              | Ø (mm)          |
|----------------------------------------|--------------|-----------------|
| Nozzle plate                           | 0.5 mm slots | Ø 650 - Ø 1200  |
| Lateral manhole <sup>(1)</sup>         | Ø 400        | Ø 1050 - Ø 1200 |
| Sight glass <sup>(2)</sup>             | Ø 90         | Ø 500 - Ø 1200  |
| Vinylester. Ozone use <sup>(3)</sup>   |              | Ø 500 - Ø 1200  |
| Use with salt water <sup>(4)</sup>     |              | Ø 500 - Ø 1200  |
| Use with drinking water <sup>(5)</sup> |              | Ø 500 - Ø 1200  |
| UV resistant. Outdoor use              |              | Ø 500 - Ø 1200  |

<sup>(1)</sup> This option replaces sand drain Ø 200.

<sup>(2)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(3)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(4)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(5)</sup> A certificate of the material suitable for use with drinking water is included.

## ARTIC - BED DEPTH 1 M.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 500       | 780           | 125           | 1650      | 1000      | 400         | 60               | 1.3                               | 465                     |
| 650       | 775           | 125           | 1700      | 1000      | 490         | 65               | 1.34                              | 620                     |
| 800       | 685           | 230           | 1750      | 1000      | 625         | 70               | 1.67                              | 975                     |
| 950       | 655           | 270           | 1760      | 1000      | 705         | 109              | 2.3                               | 1400                    |
| 1050      | 630           | 270           | 1895      | 1000      | 775         | 135              | 2.42                              | 1550                    |
| 1200      | 665           | 270           | 1970      | 1000      | 940         | 155              | 3.65                              | 2260                    |

## ARTIC PLUS - BED DEPTH 1,2 M.

| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | kg  | m <sup>3</sup> | kg   |
|------|------|------|------|------|------|-----|----------------|------|
| 650  | 730  | 125  | 1900 | 1200 | 490  | 75  | 80             | 800  |
| 800  | 670  | 230  | 1950 | 1200 | 625  | 90  | 95             | 1250 |
| 950  | 665  | 270  | 1960 | 1200 | 705  | 131 | 136            | 1770 |
| 1050 | 665  | 270  | 2145 | 1200 | 775  | 135 | 145            | 1915 |
| 1200 | 665  | 270  | 2170 | 1200 | 940  | 210 | 220            | 2860 |

## LAMINATED FILTERS

### DELTA FILTERS



Bed depth 1 m or 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.



Complies with Standard  
EN 16713-1

- According EN 16713-1.
- Filters are made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Maximum temperature 50°C.
- Maximum pressure 2,5 bar.
- Colour RAL 1024.

BED DEPTH 1 M. / DEPTH 1.2 M.

| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Outlet Ø | Code filter          |                          |                      |                          |
|---------------------|-----------------|----------------------------------|----------------------------------|----------|----------------------|--------------------------|----------------------|--------------------------|
|                     |                 |                                  |                                  |          | Bed depth 1 m        |                          | Bed depth 1.2 m      |                          |
|                     |                 |                                  |                                  |          | Filter with laterals | Filter with nozzle plate | Filter with laterals | Filter with nozzle plate |
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | In       |                      |                          |                      |                          |
| 500                 | 0.19            | 40                               | 8                                | 1 ½"     | 58682                |                          |                      |                          |
| 650                 | 0.33            | 40                               | 13.3                             | 1 ½"     | 36676                | 36684                    | 36680                | 36688                    |
| 800                 | 0.50            | 40                               | 20.1                             | 2"       | 36677                | 36685                    | 36681                | 36689                    |
| 1000                | 0.86            | 40                               | 31.4                             | 2 ½"     | 36678                | 36686                    | 36682                | 36690                    |
| 1200                | 1.13            | 40                               | 45.2                             | Ø 90     | 36679                | 36687                    | 36683                | 36691                    |

The filter code does not include filter media

## LAMINATED FILTERS

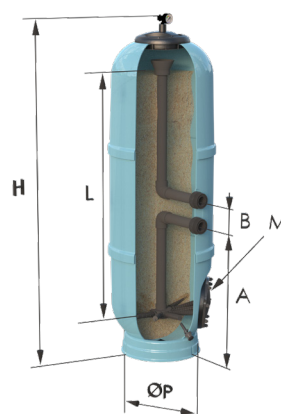
## DELTA FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
on page 160

FILTER WITH  
LATERALS



| STANDARD EQUIPMENT |       | Filter with laterals<br>0,3 mm | Filter with nozzle plate<br>0,5 mm slots | Pressure (bar) |
|--------------------|-------|--------------------------------|------------------------------------------|----------------|
| Lateral Manhole    | DN200 | Ø 500 - Ø 1200                 |                                          | 2.5            |
| Sight Glass        | Ø 90  | Delta 1200 (Ø 650 - Ø 1200)    |                                          | 2.5            |
| Top manhole        | Ø 200 | Ø 500 - Ø 800                  |                                          | 2.5            |
|                    | Ø 400 | Ø 1000 - Ø 1200                |                                          | 2.5            |
| Air relief         | 1/4"  | Ø 500 - Ø 800                  |                                          | 2.5            |
|                    | 3/4"  | Ø 1000 - Ø 1200                |                                          | 2.5            |
| Water drain        | 1/4"  | Ø 500 - Ø 1200                 |                                          | 2.5            |

| OPTIONS TABLE               |      | Ø (mm)                      |
|-----------------------------|------|-----------------------------|
| Sightglass (1)              | Ø 90 | Delta 1000 (Ø 500 - Ø 1200) |
| Vinylester. Ozone use (2)   |      | 500 - 1200                  |
| Use with salt water (3)     |      | 500 - 1200                  |
| Use with drinking water (4) |      | 500 - 1200                  |

(1) More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

(2) Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

(3) Maximum allowed concentration of salt 45 gr/l (seawater).

(4) A certificate of the material suitable for use with drinking water is included.

## DELTA 1000 - BED DEPTH 1 M.

| Ø<br>(mm) | A<br>(mm) | B<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight              |                             | Standard<br>Volume<br>m³ | Weight<br>in service<br>kg |
|-----------|-----------|-----------|-----------|-----------|-------------|-------------------------|-----------------------------|--------------------------|----------------------------|
|           |           |           |           |           |             | Filter with<br>laterals | Filter with<br>nozzle plate |                          |                            |
|           |           |           |           |           |             | kg                      |                             |                          |                            |
| 500       | 690       | 125       | 1680      | 1000      | 400         | 45                      | -                           | 1.34                     | 530                        |
| 650       | 740       | 125       | 1702      | 1000      | 490         | 80                      | 94                          | 1.34                     | 700                        |
| 800       | 715       | 230       | 1749      | 1000      | 625         | 90                      | 111                         | 1.71                     | 1100                       |
| 1000      | 785       | 270       | 1840      | 1000      | 890         | 125                     | 155                         | 2.16                     | 1750                       |
| 1200      | 800       | 300       | 1915      | 1000      | 1145        | 150                     | 190                         | 3.29                     | 2550                       |

## DELTA 1200 - BED DEPTH 1.2 M.

| Ø    | A    | B    | H    | L    | Ø P  | Filter with<br>laterals | Filter with<br>nozzle plate | Standard<br>Volume | Weight<br>in service |
|------|------|------|------|------|------|-------------------------|-----------------------------|--------------------|----------------------|
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | kg                      |                             | m³                 | kg                   |
| 650  | 740  | 125  | 1920 | 1200 | 585  | 100                     | 114                         | 1.5                | 800                  |
| 800  | 715  | 230  | 1995 | 1200 | 700  | 110                     | 131                         | 1.94               | 1250                 |
| 1000 | 785  | 270  | 2010 | 1200 | 890  | 120                     | 150                         | 2.31               | 1915                 |
| 1200 | 800  | 300  | 2150 | 1200 | 1145 | 160                     | 200                         | 3.54               | 2860                 |

## LAMINATED FILTERS



### NORMA FILTERS



- Designed following the guidelines of the standards DIN 19605/19643.
- According EN 16713-1.
- Filters are made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Maximum temperature 50°C.
- Bed depth 1,2 m.
- Fiberglass polyester flanges.
- Hardware stainless steel AISI 316.



Bed depth 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.



Complies with Standard  
EN 16713-1

|                     |                 |                     |                  |          |       | BED DEPTH 1 M.             |
|---------------------|-----------------|---------------------|------------------|----------|-------|----------------------------|
| Ø Internal diameter | Filtration Area | Filtration velocity | Recommended flow | Outlet Ø |       | Code filter <sup>(1)</sup> |
|                     |                 |                     |                  | Upper    | Lower |                            |
|                     |                 |                     |                  | mm       |       |                            |
| mm                  | m²              | m³/h/m²             | m³/h/m²          |          |       | 2.5 bar                    |
| 650                 | 0.33            | 30                  | 10               | 90       | 75    | 08142P                     |
| 800                 | 0.50            |                     | 15               | 90       | 75    | 08143P                     |
| 1000                | 0.80            |                     | 23               | 140      | 110   | 08144P                     |
| 1200                | 1.13            |                     | 33               | 140      | 140   | 08145P                     |

(1) The filter code does not include filter media or valve manifold

## LAMINATED FILTERS

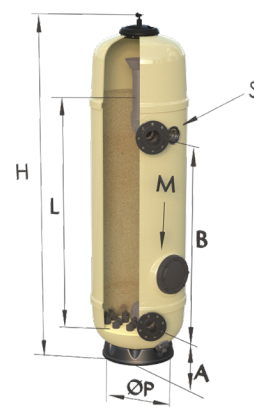
## NORMA FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
on page 160

FILTER  
WITH NOZZLE  
PLATE



| STANDARD EQUIPMENT |              | Filter with nozzle plate | Pressure (bar) |
|--------------------|--------------|--------------------------|----------------|
| Nozzle plate       | 0,5 mm slots | Ø 650 - Ø 1200           | 2.5            |
| Lateral manhole    | Ø 200        | Ø 650 - Ø 800            | 2.5            |
|                    | Ø 400        | Ø 1000 - Ø 1200          | 2.5            |
| Sight glass        | Ø 90         | Ø 650 - Ø 1200           | 2.5            |
| Air relief         | 2"           | Ø 650 - Ø 1200           | 2.5            |
| Water drain        | 2.5" - 1/4"  | Ø 650 - Ø 1200           | 2.5            |
| Top manhole        | Ø 200        | Ø 650 - Ø 1200           | 2.5            |

| OPTIONS TABLE                          | Ø (mm)         |
|----------------------------------------|----------------|
| Vinylester. Ozone use <sup>(1)</sup>   | Ø 650 - Ø 1200 |
| Use with salt water <sup>(2)</sup>     | Ø 650 - Ø 1200 |
| Use with drinking water <sup>(3)</sup> | Ø 650 - Ø 1200 |

<sup>(1)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(2)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(3)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 650       | 320           | 1330          | 2480      | 1200      | 585         | 100              | 1.33                              | 845                     |
| 800       | 320           | 1330          | 2480      |           | 700         | 125              | 2                                 | 1490                    |
| 1000      | 340           | 1640          | 2490      |           | 890         | 145              | 3                                 | 2190                    |
| 1200      | 400           | 1200          | 2640      |           | 1145        | 177              | 5.5                               | 3320                    |

## LAMINATED FILTERS



### BEGUR FILTERS

- Designed following the guidelines of the standards DIN 19605/19643.
- Filters are made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Nozzle plate included with 65 nozzles/m<sup>2</sup>.
- Maximum temperature 50°C.
- Bed depth 1,2 m.
- Freeboard 0,5 m.
- Fibreglass polyester flanges.
- Colour RAL 5015.
- Hardware stainless steel AISI 316.

Bed depth 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.

| Ø Internal diameter | Filtration Area | Filtration velocity | Recommended flow | Input connection | Output connection | Code filter <sup>(1)</sup>      |                                 |
|---------------------|-----------------|---------------------|------------------|------------------|-------------------|---------------------------------|---------------------------------|
|                     |                 |                     |                  |                  |                   | Outlet water under nozzle plate |                                 |
| mm                  | m²              | m³/h/m²             | m³/h/m²          | mm               |                   | Monolayer<br>(1 sight glass)    | Multilayer<br>(2 sight glasses) |
| 650                 | 0.33            | 20                  | 7                | 90               | 75                | 66033                           | 66033                           |
|                     |                 | 30                  | 10               |                  |                   | 126 000                         | 127 000                         |
| 800                 | 0.5             | 20                  | 10               | 110              | 90                | 66034                           | 66034                           |
|                     |                 | 30                  | 15               |                  |                   | 126 000                         | 127 000                         |
| 1000                | 0.86            | 20                  | 16               | 140              | 110               | 66035                           | 66035                           |
|                     |                 | 30                  | 23               |                  |                   | 126 000                         | 127 000                         |
| 1200                | 1.13            | 20                  | 23               | 160              | 140               | 66036                           | 66036                           |
|                     |                 | 30                  | 34               |                  |                   | 126 000                         | 127 000                         |

(1) Example of Interpretation of the code: 66033 126 000  
The filter code does not include filter media

## LAMINATED FILTERS

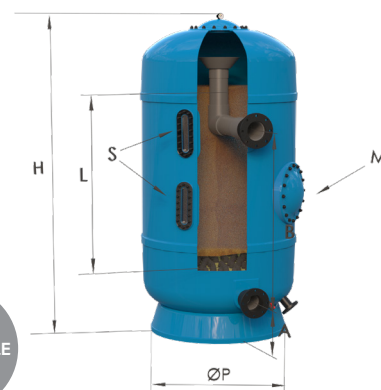
## BEGUR FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
on page 160

FILTER  
WITH NOZZLE  
PLATE



FILTRATION

## STANDARD EQUIPMENT

## Filter with nozzle plate

## Pressure (bar)

|                        |              |                 |     |
|------------------------|--------------|-----------------|-----|
| Nozzle plate           | 0.5 mm slots | Ø 650 - Ø 1200  | 2.5 |
| Lateral manhole        | Ø 200        | Ø 650           | 2.5 |
|                        | Ø 400        | Ø 800 - Ø 1200  | 2.5 |
| Sight glass            | 50 x 300 mm  | Ø 650 - Ø 1200  | 2.5 |
| Air relief             | 1/4"         | Ø 650 - Ø 1200  | 2.5 |
| Water drain            | 3/4"         | Ø 650 - Ø 1200  | 2.5 |
| Airscouring connection | DN50         | Ø 650 - Ø 1200  | 2.5 |
| Top manhole            | Ø 200        | Ø 650 - Ø 800   | 2.5 |
|                        | Ø 400        | Ø 1000 - Ø 1200 | 2.5 |

## OPTIONS TABLE

## Ø (mm)

|                                        |                |
|----------------------------------------|----------------|
| Vinylester. Ozone use <sup>(1)</sup>   | Ø 650 - Ø 1200 |
| Use with salt water <sup>(2)</sup>     |                |
| Use with drinking water <sup>(3)</sup> |                |

<sup>(1)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(2)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(3)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 650       | 270           | 1400          | 2411      | 1200      | 580         | 110              | 1.88                              | 845                     |
| 800       | 270           |               | 2442      |           | 700         | 150              | 2.70                              | 1490                    |
| 1000      | 355           |               | 2617      |           | 890         | 160              | 4.30                              | 2190                    |
| 1200      | 385           |               | 2752      |           | 1085        | 180              | 4.98                              | 3320                    |

## LAMINATED FILTERS

### BLANES FILTERS



- Designed following the guidelines of the standards DIN 19605/19643.
- Filters are made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Nozzle plate included with 65 nozzles/m<sup>2</sup>.
- Maximum temperature 50°C.
- Bed depth 1,2 m.
- Freeboard 0,5 m.
- Fibreglass polyester flanges.
- Colour RAL 5015.
- Hardware stainless steel AISI 316.

Bed depth 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.

| Ø Internal diameter | Filtration Area | Filtration velocity | Recommended flow | Input connection | Output connection | Code filter*                    |                                 |
|---------------------|-----------------|---------------------|------------------|------------------|-------------------|---------------------------------|---------------------------------|
|                     |                 |                     |                  |                  |                   | Outlet water under nozzle plate |                                 |
| mm                  | m²              | m³/h/m²             | m³/h/m²          | mm               |                   | Monolayer<br>(1 sight glass)    | Multilayer<br>(2 sight glasses) |
| 1400                | 1.54            | 20                  | 31               | 160              | 140               | 66037                           | 66037                           |
|                     |                 | 30                  | 46               |                  |                   | 126 000                         | 127 000                         |
| 1600                | 2.01            | 20                  | 40               | 160              | 160               | 66038                           | 66038                           |
|                     |                 | 30                  | 60               |                  |                   | 126 000                         | 127 000                         |
| 1800                | 2.54            | 20                  | 51               | 200              | 160               | 66039                           | 66039                           |
|                     |                 | 30                  | 76               |                  |                   | 126 000                         | 127 000                         |
| 2000                | 3.14            | 20                  | 63               | 200              | 200               | 66040                           | 66040                           |
|                     |                 | 30                  | 94               |                  |                   | 126 000                         | 127 000                         |

(1) Example of Interpretation of the code: 66037 126 000  
The filter code does not include filter media

## LAMINATED FILTERS

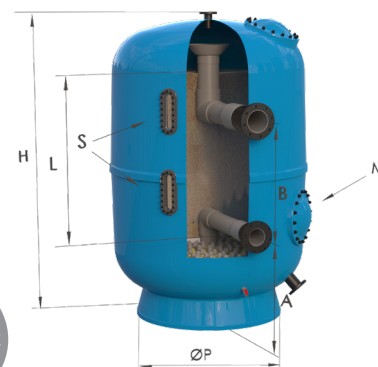
# BLANES FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
on page 160

FILTER  
WITH NOZZLE  
PLATE



### STANDARD EQUIPMENT

### Filter with nozzle plate

### Pressure (bar)

|                        |              |                 |     |
|------------------------|--------------|-----------------|-----|
| Nozzle plate           | 0.5 mm Slots | Ø 1400 - Ø 2000 | 2.5 |
| Lateral manhole        | Ø 400 mm     |                 |     |
| Sight glass            | 50 x 300 mm  |                 |     |
| Air relief             | DN50         |                 |     |
| Water drain            | 3/4"         |                 |     |
| Airscouring connection | DN80         |                 |     |
| Top manhole            | Ø 400 mm     |                 |     |

### OPTIONS TABLE

### Ø (mm)

|                                        |                 |
|----------------------------------------|-----------------|
| Vinylester. Ozone use <sup>(1)</sup>   | Ø 1400 - Ø 2000 |
| Use with salt water <sup>(2)</sup>     |                 |
| Use with drinking water <sup>(3)</sup> |                 |

<sup>(1)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(2)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(3)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m³ | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------|-------------------------|
| 1400      | 915           | 1000          | 2650      | 1200      | 1085        | 220              | 7.85                  | 4470                    |
| 1600      | 915           |               | 2738      |           | 1230        | 280              | 9.40                  | 5890                    |
| 1800      | 915           |               | 2800      |           | 1370        | 340              | 12.40                 | 7600                    |
| 2000      | 960           |               | 2880      |           | 1560        | 435              | 15.49                 | 9455                    |

## LAMINATED FILTERS



### VESUBIO FILTERS



- Made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- 2½" sand discharge outlet.
- Collector arms.



Bed depth 1 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.

Does not include valve  
manifold

Optional:  
Standard American  
sizes

Coding options  
according to table on  
page 158

|                     |                 |                                  |                                  |                    | BED DEPTH 1 M.             |                                                  |
|---------------------|-----------------|----------------------------------|----------------------------------|--------------------|----------------------------|--------------------------------------------------|
| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Connections Ø tube | Code filter <sup>(1)</sup> | Valve manifold Manual, 5-valve code for 1 filter |
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | mm                 | 2.5 bar                    |                                                  |
| 450                 | 0.16            | 50                               | 8                                | 50                 | 15785-0100                 |                                                  |
| 500                 | 0.19            | 50                               | 10                               | 50                 | 19353-0100                 |                                                  |
| 600                 | 0.3             | 50                               | 12                               | 50                 | 15786-0100                 |                                                  |
| 750                 | 0.44            | 50                               | 22                               | 63                 | 15787-0100                 |                                                  |
| 900                 | 0.64            | 50                               | 32                               | 63                 | 16574-0100                 |                                                  |
|                     |                 |                                  |                                  | 75                 | 15788                      |                                                  |
| 1050                | 0.87            | 20                               | 17                               | 63                 | 41304                      | 00769 VO 10                                      |
|                     |                 | 30/40                            | 25/34                            | 75                 | 41305                      | 00771 VO 10                                      |
|                     |                 | 50                               | 43                               | 90                 | 41306                      | 00776 VO 10                                      |
| 1200                | 1.13            | 20/30                            | 22/33                            | 75                 | 41307                      | 00771 VO 12                                      |
|                     |                 | 40/50                            | 45/56                            | 90                 | 41308                      | 00776 VO 12                                      |
| 1400                | 1.54            | 20                               | 30                               | 75                 | 41309                      | 00771 VO 14                                      |
|                     |                 | 30                               | 46                               | 90                 | 41310                      | 00776 VO 14                                      |
|                     |                 | 40/50                            | 61/77                            | 110                | 41311                      | 00780 VO 14                                      |
| 1600                | 2.01            | 20                               | 40                               | 90                 | 41312                      | 00776 VO 16                                      |
|                     |                 | 30/40                            | 60/80                            | 110                | 41313                      | 00780 VO 16                                      |
|                     |                 | 50                               | 100                              | 125                | 41314                      | 00785 VO 16                                      |
| 1800                | 2.54            | 20                               | 50                               | 90                 | 41315                      | 00776 VO 18                                      |
|                     |                 | 30                               | 76                               | 110                | 41316                      | 00780 VO 18                                      |
|                     |                 | 40                               | 101                              | 125                | 41317                      | 00785 VO 18                                      |
|                     |                 | 50                               | 125                              | 140                | 41318                      | 00789 VO 18                                      |
| 2000                | 3.14            | 20                               | 62                               | 110                | 41319                      | 00780 VO 20                                      |
|                     |                 | 30                               | 94                               | 125                | 41320                      | 00785 VO 20                                      |
|                     |                 | 40                               | 125                              | 140                | 41321                      | 00789 VO 20                                      |
|                     |                 | 50                               | 157                              | 160                | 41322                      | 09177 VO 20                                      |

<sup>(1)</sup> The filter code does not include filter media or valve manifold

## LAMINATED FILTERS

## VESUBIO FILTERS

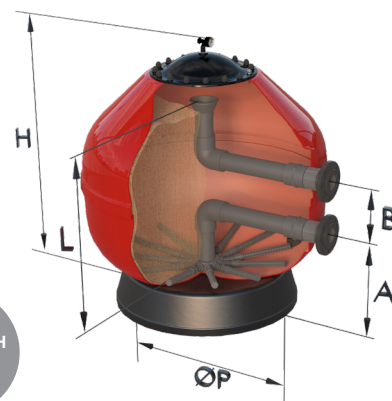


## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
160 and 163



FILTER WITH  
LATERALS



## STANDARD EQUIPMENT

Laterals slots 0.3 mm  
Top manhole Ø 400  
Sand drain 2 ½"  
Water drain ¼"  
Manual air relief ¼"

## Filter with laterals

Ø 1050 - 2000  
Ø 1050 - 2000  
Ø 1050 - 2000  
Ø 450 - 2000  
Ø 450 - 2000

## OPTIONS TABLE

Ø (mm)

Pressure (bar)

|                                        |           |     |
|----------------------------------------|-----------|-----|
| Lateral manhole Ø225 <sup>(2)</sup>    | 1050-2000 | 2.5 |
| Sight glass Ø75 <sup>(5)</sup>         | 1050-2000 | 2.5 |
| Vinylester. Ozone use <sup>(4)</sup>   | 450-2000  | 2.5 |
| Use with salt water <sup>(5)</sup>     | 450-2000  | 2.5 |
| Use with drinking water <sup>(6)</sup> | 450-2000  | 2.5 |
| Top manhole Ø400                       | 1050-2000 | 2.5 |

<sup>(2)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(5)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the level of the depth bed media, rotated 45° to the left of the inlet/outlet by default. It can be modified as per your requirements.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 450       | 265           | 125           | 725       | 375       | 347         | 16               | 0.2                               |                         |
| 500       | 305           |               | 765       | 405       | 400         | 20               | 0.26                              |                         |
| 600       | 325           |               | 865       | 445       |             | 23               | 0.36                              |                         |
| 750       | 300           | 230           | 895       | 520       | 490         | 32               | 0.6                               | 365                     |
| 900       | 325           | 270           | 1080      | 655       | 625         | 48               | 1.003                             | 632                     |
| 1050      | 465           | 500           | 1545      | 1000      | 760         | 110              | 2.25                              | 1630                    |
| 1200      | 675           |               | 1730      | 1250      | 850         | 125              | 3.37                              | 2220                    |
| 1400      | 725           |               | 1845      | 1300      | 1085        | 152              | 4.41                              | 3060                    |
| 1600      | 710           |               | 1850      | 1400      | 1230        | 185              | 5.66                              | 3930                    |
| 1800      | 755           | 570           | 1915      | 1350      | 1370        | 257              | 7.40                              | 5065                    |
| 2000      | 775           |               | 2030      | 1420      | 1560        | 360              | 9.48                              | 6360                    |

## LAMINATED FILTERS



### EUROPE 1.0 FILTERS

- Made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- Collector arms and optional nozzle plate.



Bed depth 1 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup> - 4 kg/cm<sup>2</sup>

Does not include valve  
manifold

Optional:  
Standard American  
sizes

Coding options  
according to table on  
page 158

|                     |                 |                                  |                                  |                    | BED DEPTH 1 M              |       |                                                  |
|---------------------|-----------------|----------------------------------|----------------------------------|--------------------|----------------------------|-------|--------------------------------------------------|
| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Connections Ø tube | Code filter <sup>(1)</sup> |       | Valve manifold Manual, 5-valve code for 1 filter |
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | mm                 | 2.5 bar                    | 4 bar |                                                  |
| 1050                | 0.87            | 20*                              | 17                               | 63                 | 20070                      | 34270 | 00769 EU 10                                      |
|                     |                 | 30/40**                          | 25/34                            | 75                 | 20071                      | 34271 | 00771 EU 10                                      |
|                     |                 | 50                               | 43                               | 90                 | 20072                      | 34272 | 00776 EU 10                                      |
| 1200                | 1.13            | 20/30                            | 22/33                            | 75                 | 20068                      | 34273 | 00771 EU 12                                      |
|                     |                 | 40/50                            | 45/56                            | 90                 | 20069                      | 34274 | 00776 EU 12                                      |
| 1400                | 1.54            | 20                               | 30                               | 75                 | 21497                      | 34276 | 00771 EU 14                                      |
|                     |                 | 30                               | 46                               | 90                 | 21498                      | 34277 | 00776 EU 14                                      |
|                     |                 | 40/50                            | 61/77                            | 110                | 21499                      | 34278 | 00780 EU 14                                      |
| 1600                | 2.01            | 20                               | 40                               | 90                 | 21500                      | 34280 | 00776 EU 16                                      |
|                     |                 | 30/40                            | 60/80                            | 110                | 21501                      | 34281 | 00780 EU 16                                      |
|                     |                 | 50                               | 100                              | 125                | 21502                      | 34282 | 00785 EU 16                                      |
| 1800                | 2.54            | 20                               | 50                               | 90                 | 21503                      | 34285 | 00776 EU 18                                      |
|                     |                 | 30                               | 76                               | 110                | 21504                      | 34286 | 00780 EU 18                                      |
|                     |                 | 40                               | 101                              | 125                | 21505                      | 34287 | 00785 EU 18                                      |
|                     |                 | 50                               | 125                              | 140                | 21506                      | 34288 | 00789 EU 18                                      |
| 2000                | 3.14            | 20                               | 62                               | 110                | 21507                      | 34290 | 00780 EU 20                                      |
|                     |                 | 30                               | 94                               | 125                | 21508                      | 34291 | 00785 EU 20                                      |
|                     |                 | 40                               | 125                              | 140                | 21509                      | 34292 | 00789 EU 20                                      |
|                     |                 | 50                               | 157                              | 160                | 21510                      | 34293 | 09177 EU 20                                      |
| 2350                | 4.34            | 20                               | 87                               | 125                | 33820                      |       | 00785 EU 23                                      |
|                     |                 | 30                               | 130                              | 140                | 33822                      |       | 00789 EU 23                                      |
|                     |                 | 40                               | 174                              | 160                | 33824                      |       | 09177 EU 23                                      |
|                     |                 | 50                               | 217                              | 200                | 33826                      |       | 09180 EU 23                                      |
| 2500                | 4.91            | 20                               | 100                              | 140                | 34302                      |       | 00789 EU 25                                      |
|                     |                 | 30                               | 150                              | 160                | 34303                      |       | 09177 EU 25                                      |
|                     |                 | 40                               | 200                              | 200                | 34304                      |       | 09180 EU 25                                      |
|                     |                 | 50                               | 225                              | 225                | 34305                      |       | 09185 EU 25                                      |

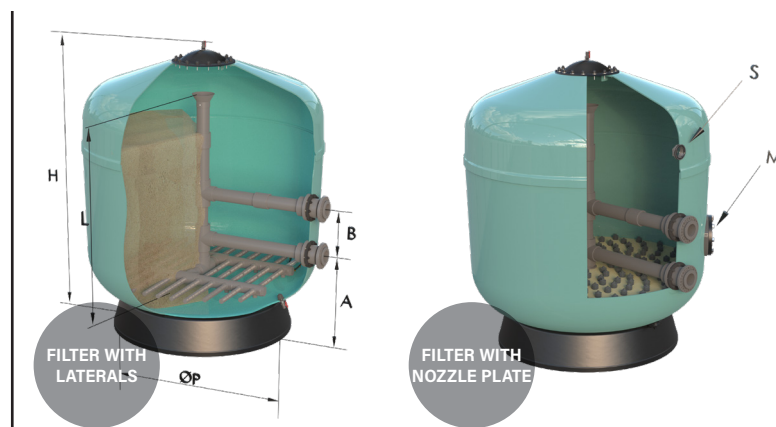
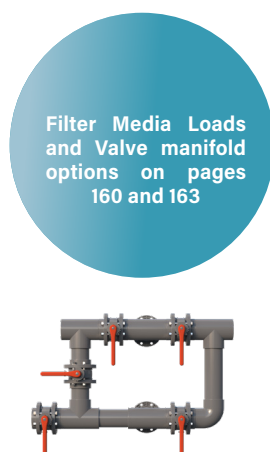
<sup>(1)</sup> The filter code does not include filter media or valve manifold.

## LAMINATED FILTERS

## EUROPE 1.0 FILTERS



## TECHNICAL FEATURES



| STANDARD EQUIPMENT | Filter with laterals<br>Collector system slots 0.3 mm | Filter with nozzle plate<br>Collector system slots 0.5 mm |
|--------------------|-------------------------------------------------------|-----------------------------------------------------------|
| Top manhole Ø 400  |                                                       | Ø 1050 - 2500                                             |
| Air relief 3/4"    |                                                       | Ø 1050 - 2500                                             |
| Sand drain Ø 200   | Ø 1050 - 2500                                         | Lateral manhole is recommended                            |
| Water drain 3/4"   |                                                       | Ø 1050 - 2500                                             |

| OPTIONS TABLE                          |          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|----------|-------------|----------------|
| Nozzle plate <sup>(1)</sup>            |          | 1050 - 2500 | 2.5 - 4        |
| Lateral manhole <sup>(M)</sup>         | Ø 225 mm | 1050 - 2500 | 2.5 - 4        |
|                                        | Ø 400 mm | 1050 - 2500 | 2.5 - 4        |
| Sight glass <sup>(S)</sup>             | Ø 75 mm  | 1050 - 2500 | 2.5 - 4        |
|                                        | Ø 135 mm | 1050 - 2500 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 2500 | 2.5 - 4        |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 2500 | 2.5 - 4        |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 2500 | 2.5 - 4        |

<sup>(1)</sup> Nozzle plate with 0.5 mm slots suitable for air scouring.

<sup>(M)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(S)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the level of the media, rotated 45° to the left of the inlet/outlet by default. It can be modified as per your requirements.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 1050      | 540           | 270           | 1860      | 1300      | 760         | 125              | 2.823                             | 2060                    |
| 1200      | 570           | 350           | 1860      | 1300      | 850         | 150              | 3.597                             | 2600                    |
| 1400      | 615           | 400           | 2000      | 1350      | 1083        | 214              | 4.9                               | 3500                    |
| 1600      | 710           | 400           | 2100      | 1330      | 1230        | 230              | 6.5                               | 4700                    |
| 1800      | 725           | 400           | 2200      | 1300      | 1370        | 344              | 8.8                               | 6150                    |
| 2000      | 805           | 400           | 2200      | 1350      | 1558        | 435              | 10.58                             | 7800                    |
| 2350      | 950           | 400           | 2430      | 1380      | 1830        | 600              | 15.7                              | 10766                   |
| 2500      | 1015          | 500           | 2525      | 1500      | 1830        | 630              | -                                 | 13800                   |

LAMINATED FILTERS



# EUROPE 1.2 FILTERS



- Made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- Collector arms and optional nozzle plate.

BED DEPTH 1.2 M

| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Outlet Ø | Code filter <sup>(1)</sup> | Valve manifold Manual, 5-valve code for 1 filter |
|---------------------|-----------------|----------------------------------|----------------------------------|----------|----------------------------|--------------------------------------------------|
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | mm       | 2.5 bar                    |                                                  |
| 1050                | 0.87            | 20*                              | 17                               | 63       | 31857                      | 00769 EU 10                                      |
|                     |                 | 30/40**                          | 25/34                            | 75       | 31858                      | 00771 EU 10                                      |
|                     |                 | 50                               | 43                               | 90       | 31859                      | 00776 EU 10                                      |
| 1200                | 1.13            | 20/30                            | 22/33                            | 75       | 31860                      | 00771 EU 12                                      |
|                     |                 | 40/50                            | 45/56                            | 90       | 31861                      | 00776 EU 12                                      |
| 1400                | 1.54            | 20                               | 30                               | 75       | 21511                      | 00771 EU 14                                      |
|                     |                 | 30                               | 46                               | 90       | 21512                      | 00776 EU 14                                      |
|                     |                 | 40/50                            | 61/77                            | 110      | 21513                      | 00780 EU 14                                      |
| 1600                | 2.01            | 20                               | 40                               | 90       | 21514                      | 00776 EU 16                                      |
|                     |                 | 30/40                            | 60/80                            | 110      | 21515                      | 00780 EU 16                                      |
|                     |                 | 50                               | 100                              | 125      | 21516                      | 00785 EU 16                                      |
| 1800                | 2.54            | 20                               | 50                               | 90       | 21517                      | 00776 EU 18                                      |
|                     |                 | 30                               | 76                               | 110      | 21518                      | 00780 EU 18                                      |
|                     |                 | 40                               | 101                              | 125      | 21519                      | 00785 EU 18                                      |
|                     |                 | 50                               | 125                              | 140      | 21520                      | 00789 EU 18                                      |
| 2000                | 3.14            | 20                               | 62                               | 110      | 21521                      | 00780 EU 20                                      |
|                     |                 | 30                               | 94                               | 125      | 21522                      | 00785 EU 20                                      |
|                     |                 | 40                               | 125                              | 140      | 21523                      | 00789 EU 20                                      |
|                     |                 | 50                               | 157                              | 160      | 21524                      | 09177 EU 20                                      |
| 2350                | 4.34            | 20                               | 87                               | 125      | 33821                      | 00785 EU 23                                      |
|                     |                 | 30                               | 130                              | 140      | 33823                      | 00789 EU 23                                      |
|                     |                 | 40                               | 174                              | 160      | 33825                      | 09177 EU 23                                      |
|                     |                 | 50                               | 217                              | 200      | 33827                      | 09180 EU 23                                      |
| 2500                | 4.91            | 20                               | 100                              | 140      | 34306                      | 00789 EU 25                                      |
|                     |                 | 30                               | 150                              | 160      | 34307                      | 09177 EU 25                                      |
|                     |                 | 40                               | 200                              | 200      | 34308                      | 09180 EU 25                                      |
|                     |                 | 50                               | 225                              | 225      | 34309                      | 09185 EU 25                                      |

<sup>(1)</sup> The filter code does not include filter media or valve manifold

Bed depth 1.2 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.

Does not include valve manifold

Optional:  
Standard American sizes

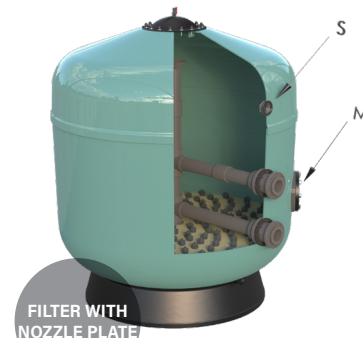
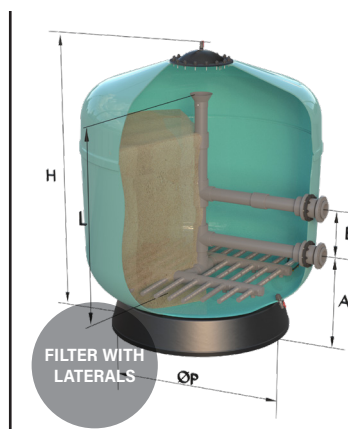
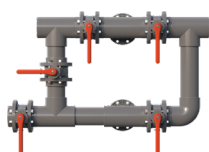
Coding options according to table on page 158

## LAMINATED FILTERS

## EUROPE 1.2 FILTERS



## TECHNICAL FEATURES



| STANDARD EQUIPMENT | Filter with laterals<br>Collector system slots 0.3 mm | Filter with nozzle plate<br>Collector system slots 0.5 mm |
|--------------------|-------------------------------------------------------|-----------------------------------------------------------|
| Top manhole Ø 400  |                                                       | Ø1050 - 2500                                              |
| Air drain 3/4"     |                                                       | Ø1050 - 2500                                              |
| Sand drain Ø 200   | Ø1050 - 2500                                          | Lateral manhole is recommended                            |
| Water drain 3/4"   |                                                       | Ø 1050 - 2500                                             |

| OPTIONS TABLE                          |          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|----------|-------------|----------------|
| Nozzle plate <sup>(1)</sup>            |          | 1050 - 2500 | 2.5            |
| Lateral manhole <sup>(M)</sup>         | Ø 225 mm | 1050 - 2500 | 2.5            |
|                                        | Ø 400 mm | 1050 - 2500 | 2.5            |
| Sight glass <sup>(S)</sup>             | Ø 75 mm  | 1050 - 2500 | 2.5            |
|                                        | Ø 135 mm | 1050 - 2500 | 2.5            |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 2500 | 2.5            |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 2500 | 2.5            |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 2500 | 2.5            |

<sup>(1)</sup> Nozzle plate with 0.5 mm slots suitable for air scouring.

<sup>(M)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(S)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the level of the media, rotated 45° to the left of the inlet/outlet by default. It can be modified as per your requirements.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

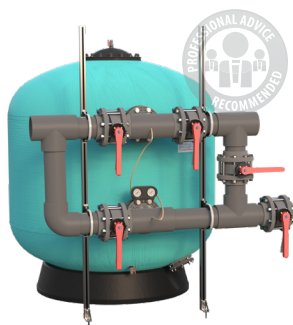
<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m³ | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------|-------------------------|
| 1050      | 540           | 270           | 2060      | 1480      | 760         | 140              | 3.04                  | 2375                    |
| 1200      | 570           | 350           | 2060      | 1480      | 850         | 155              | 3.89                  | 2950                    |
| 1400      | 615           | 400           | 2200      | 1520      | 1085        | 215              | 6.27                  | 4000                    |
| 1600      | 710           | 400           | 2300      | 1550      | 1230        | 255              | 8.31                  | 5475                    |
| 1800      | 725           | 400           | 2400      | 1570      | 1370        | 385              | 10.65                 | 6950                    |
| 2000      | 805           | 400           | 2400      | 1570      | 1560        | 4265             | 12.90                 | 8800                    |
| 2350      | 950           | 400           | 2630      | 1580      | 1830        | 630              | 16.80                 | 12180                   |
| 2500      | 1015          | 500           | 2675      | 1700      | 1830        | 860              | -                     | 14460                   |

## BOBBIN WOUND FILTERS

### PRAGA FILTERS



- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- 2 ½" sand discharge outlet.
- Collector arms and optional nozzle plate.

Bed depth 1 m

For all filters with nozzle plate, a side manhole is recommended for easy discharge of media

Optional:  
Standard American sizes

Other specific heights may be made to order

Coding options according to table on page 158

BED DEPTH 1 M.

| Ø<br>Internal<br>diameter<br><br>mm | Filtration<br>Area<br><br>m <sup>2</sup> | Filtration<br>velocity<br><br>m <sup>3</sup> /h/m <sup>2</sup> | Recommended<br>flow<br><br>m <sup>3</sup> /h/m <sup>2</sup> | Outlet Ø<br><br>mm | Code filter <sup>(1)</sup> |       |             | Valve manifold<br>Manual, 5-valve<br>code for 1 filter |
|-------------------------------------|------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|--------------------|----------------------------|-------|-------------|--------------------------------------------------------|
|                                     |                                          |                                                                |                                                             |                    | 2.5 bar                    | 4 bar | 6 bar       |                                                        |
| 1050                                | 0.87                                     | 20                                                             | 17                                                          | 63                 | 00687                      | 09209 | 34830       | 00769 BS 10                                            |
|                                     |                                          | 30-40                                                          | 25/34                                                       | 75                 | 00694                      | 00712 | 34831       | 00771 BS 10                                            |
|                                     |                                          | 50                                                             | 43                                                          | 90                 | 00707                      | 00724 | 34832       | 00776 BS 10                                            |
| 1200                                | 1.13                                     | 20-30                                                          | 22/33                                                       | 75                 | 00688                      | 00713 | 34833       | 00771 BS 12                                            |
|                                     |                                          | 40-50                                                          | 45/56                                                       | 90                 | 00702                      | 00719 | 34834       | 00776 BS 12                                            |
| 1400                                | 1.54                                     | 20                                                             | 30                                                          | 75                 | 00689                      | 09210 | 75815       | 00771 BS 14                                            |
|                                     |                                          | 30                                                             | 46                                                          | 90                 | 00696                      | 00714 | 34837       | 00776 BS 14                                            |
|                                     |                                          | 40                                                             | 61                                                          | 110                | 00703                      | 00720 | 34838       | 00780 BS 14                                            |
| 1600                                | 2.01                                     | 20                                                             | 40                                                          | 90                 | 00690                      | 09211 | 34839       | 00776 BS 16                                            |
|                                     |                                          | 30-40                                                          | 60/80                                                       | 110                | 00697                      | 00715 | 34840       | 00780 BS 16                                            |
|                                     |                                          | 50                                                             | 100                                                         | 125                | 00710                      | 00727 | 75816       | 00785 BS 16                                            |
| 1800                                | 2.54                                     | 20                                                             | 50                                                          | 90                 | 00691                      | 09212 | 34844       | 00776 BS 18                                            |
|                                     |                                          | 30                                                             | 76                                                          | 110                | 00698                      | 00716 | 34845       | 00780 BS 18                                            |
|                                     |                                          | 40                                                             | 101                                                         | 125                | 00705                      | 00722 | 34846       | 00785 BS 18                                            |
|                                     |                                          | 50                                                             | 125                                                         | 140                | 00711                      | 00728 | 75817       | 00789 BS 18                                            |
|                                     |                                          | 50                                                             | 125                                                         | 160                | 33312                      | 31988 | 75818       | 09177 BS 18                                            |
| 2000                                | 3.14                                     | 20                                                             | 62                                                          | 110                | 00692                      | 09213 | 34849       | 00780 BS 20                                            |
|                                     |                                          | 30                                                             | 94                                                          | 125                | 00699                      | 00717 | 34850       | 00785 BS 20                                            |
|                                     |                                          | 40                                                             | 125                                                         | 140                | 00706                      | 00723 | 34851       | 00789 BS 20                                            |
|                                     |                                          | 50                                                             | 157                                                         | 160                | 05083                      | 05132 | 75819       | 09177 BS 20                                            |
| 2200                                | 3.80                                     | 30                                                             | 114                                                         | 140                | 56937                      | 57812 | 57812 PR 06 | 00789 BS 22                                            |
|                                     |                                          | 40                                                             | 152                                                         | 160                | 56938                      | 57813 | 57813 PR 06 | 09177 BS 22                                            |
| 2350                                | 4.34                                     | 20                                                             | 87                                                          | 125                | 00693                      | 09214 | 09214 PR 06 | 00785 BS 23                                            |
|                                     |                                          | 30                                                             | 130                                                         | 140                | 00700                      | 09217 | 09217 PR 06 | 00789 BS 23                                            |
|                                     |                                          | 40                                                             | 175                                                         | 160                | 04935                      | 09220 | 09220 PR 06 | 09177 BS 23                                            |
| 2500                                | 4.91                                     | 20                                                             | 100                                                         | 140                | 08695                      | 09215 | 09215 PR 06 | 00789 BS 25                                            |
|                                     |                                          | 30                                                             | 150                                                         | 160                | 08696                      | 09218 | 09218 PR 06 | 09177 BS 25                                            |
|                                     |                                          | 40                                                             | 200                                                         | 200                | 08697                      | 09221 | 09221 PR 06 | 09180 BS 25                                            |
| 3000*                               | 7.07                                     | 20                                                             | 140                                                         | 160                | 08699                      | 09216 | 09216 PR 06 | 09177 BS 30                                            |
|                                     |                                          | 30                                                             | 212                                                         | 200                | 08700                      | 09219 | 09219 PR 06 | 09180 BS 30                                            |
|                                     |                                          | 40                                                             | 282                                                         | 225                | 08701                      | 09222 | 09222 PR 06 | 09185 BS 30                                            |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold.

\*Filters with a diameter greater than 2500 require special transport.

## BOBBIN WOUND FILTERS

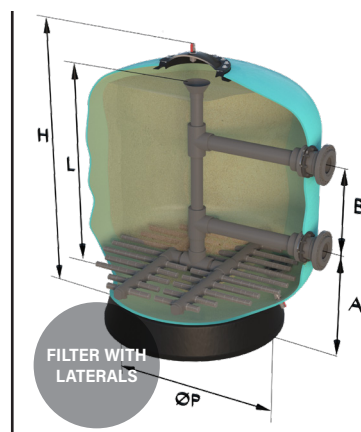
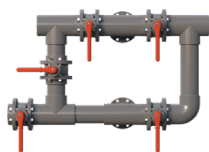
## PRAGA FILTERS



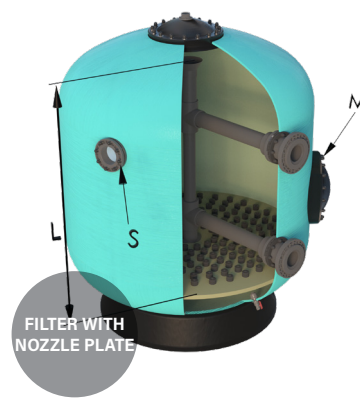
## TECHNICAL FEATURES



Filter Media Loads  
and Valve manifold  
options on pages  
160 and 163



FILTER WITH  
LATERALS



FILTER WITH  
NOZZLE PLATE

| STANDARD EQUIPMENT | Filter with laterals<br>0.3 mm slots | Filter with nozzle plate<br>0.5 mm slots |
|--------------------|--------------------------------------|------------------------------------------|
| Top manhole Ø 400  | Ø 1050 - 3000                        |                                          |
| Air relief ¾"      | Ø 1050 - 3000                        | Ø 1050 - 2000                            |
| Air relief 2"      | -                                    | Ø 2200 - 3000                            |
| Sand drain Ø 90    | Ø 1050 - 1400                        | A lateral manhole is recommended         |
| Sand drain Ø 140   | Ø 1600 - 3000                        |                                          |
| Water drain ¾"     | Ø 1050 - 3000                        |                                          |

| OPTIONS TABLE                                               | Ø (mm)      | Pressure (bar) |
|-------------------------------------------------------------|-------------|----------------|
| Nozzle plate <sup>(1)</sup>                                 |             | 2.5 - 4 - 6    |
| Lateral manhole Ø 225 mm <sup>(5)</sup>                     | 1050 - 3000 | 2.5 - 4 - 6    |
| Lateral manhole Ø 400 mm <sup>(5)</sup>                     | 1050 - 3000 | 2.5 - 4 - 6    |
| Lateral manhole Ø 500 mm <sup>(5)</sup>                     | 1200 - 3000 | 2.5 - 4        |
| Mirilla Ø 135 mm <sup>(M)</sup>                             | 1050 - 3000 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>                        | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with salt water <sup>(5)</sup>                          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with drinking water <sup>(6)</sup>                      | 1050 - 3000 | 2.5 - 4 - 6    |
| UV resistant. Outdoor use                                   | 1050 - 3000 | 2.5 - 4 - 6    |
| Top manhole Ø 500 mm                                        | 1200 - 3000 | 2.5 - 4 - 6    |
| Airscouring connection 2" - DN50 (Filter with nozzle plate) | 1050 - 2350 | 2.5 - 4 - 6    |
| Airscouring connection Ø75 (Filter with nozzle plate)       | 2500 - 3000 | 2.5 - 4 - 6    |

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 1050      | 540           | 200           | 1640      | 1175      | 755         | 155              | 2.45                              | 2000                    |
| 1200      | 570           | 230           | 1780      | 1280      | 949         | 25               | 3.38                              | 2700                    |
| 1400      | 585           | 240           | 1755      | 1160      | 1085        | 300              | 4.75                              | 3700                    |
| 1600      | 680           | 260           | 1835      | 1235      | 1230        | 330              | 6.13                              | 4900                    |
| 1800      | 720           | 280           | 1875      | 1060      | 1370        | 400              | 7.25                              | 6100                    |
| 2000      | 790           | 300           | 2040      | 1400      | 1550        | 475              | 9.92                              | 7900                    |
| 2200      | 950           | 340           | 2440      | 1450      | 1830        | 560              | 13.9                              | 11200                   |
| 2350      | 965           | 340           | 2520      | 1500      | 1859        | 630              | 17.04                             | 12550                   |
| 2500      | 1080          | 340           | 2550      | 1500      | 2000        | 930              | 19.5                              | 13760                   |
| 3000      | 1100          | 350           | 2750      | 1500      | 2365        | 1630             | 29.0                              | 20200                   |

## BOBBIN WOUND FILTERS

### VIC FILTERS



- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Quik top lid 400x 500 mm.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- Lateral sand drain 75 mm.
- Collector arms and optional nozzle plate.



Bed depth 1 m

Maximum pressure:  
2.5 kg/cm<sup>2</sup>.

For all filters with nozzle  
plate, a side manhole is  
recommended for easy  
discharge of media

Optional:  
Standard American sizes

Coding options  
according to table on  
page 158

BED DEPTH 1 M.

| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Outlet Ø | Code filter <sup>(1)</sup> | Valve manifold Manual, 5-valve code for 1 filter |
|---------------------|-----------------|----------------------------------|----------------------------------|----------|----------------------------|--------------------------------------------------|
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | mm       | 2.5 bar                    |                                                  |
| 1050                | 0.87            | 20                               | 17                               | 63       | 11511N                     | 00769 VI 10                                      |
|                     |                 | 30/40                            | 25/34                            | 75       | 11517N                     | 00771 VI 10                                      |
|                     |                 | 50                               | 43                               | 90       | 11526N                     | 00776 VI 10                                      |
| 1200                | 1.13            | 20/30                            | 22/33                            | 75       | 11512N                     | 00771 VI 12                                      |
|                     |                 | 40/50                            | 45/56                            | 90       | 11522N                     | 00776 VI 12                                      |
| 1400                | 1.54            | 20                               | 30                               | 75       | 11513N                     | 00771 VI 14                                      |
|                     |                 | 30                               | 46                               | 90       | 11518N                     | 00776 VI 14                                      |
|                     |                 | 40/50                            | 61/77                            | 110      | 11523N                     | 00780 VI 14                                      |
| 1600                | 2.01            | 20                               | 40                               | 90       | 11514N                     | 00776 VI 16                                      |
|                     |                 | 30/40                            | 60/80                            | 110      | 11519N                     | 00780 VI 16                                      |
|                     |                 | 50                               | 100                              | 125      | 11527N                     | 00785 VI 16                                      |
| 1800                | 2.54            | 20                               | 50                               | 90       | 11515N                     | 00776 VI 18                                      |
|                     |                 | 30                               | 76                               | 110      | 11520N                     | 00780 VI 18                                      |
|                     |                 | 40                               | 101                              | 125      | 11524N                     | 00785 VI 18                                      |
|                     |                 | 50                               | 125                              | 140      | 11528N                     | 00789 VI 18                                      |
| 2000                | 3.14            | 20                               | 62                               | 110      | 11516N                     | 00780 VI 20                                      |
|                     |                 | 30                               | 94                               | 125      | 11521N                     | 00785 VI 20                                      |
|                     |                 | 40                               | 125                              | 140      | 11525N                     | 00789 VI 20                                      |
|                     |                 | 50                               | 157                              | 160      | 11529N                     | 09177 VI 20                                      |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold

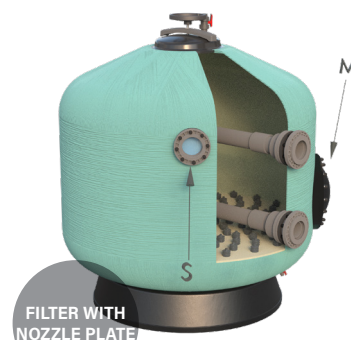
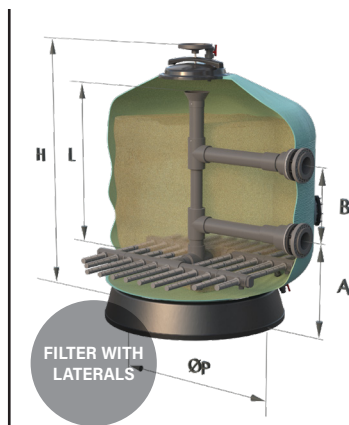
## BOBBIN WOUND FILTERS

## VIC FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
160 and 163



| STANDARD EQUIPMENT            | Filter with laterals<br>Collector system 0.3 mm slots | Filter with nozzle plate<br>Collector system 0.5 mm slots |
|-------------------------------|-------------------------------------------------------|-----------------------------------------------------------|
| Top manhole oval 400 x 500 mm |                                                       | Ø 1050 - 2000                                             |
| Air relief 1"                 |                                                       | Ø 1050 - 2000                                             |
| Water drain 1"                |                                                       | Ø 1050 - 2000                                             |
| Lateral Sand drain Ø 75       |                                                       | Ø 1050 - 2000                                             |

| OPTIONS TABLE                            | Ø (mm)      |
|------------------------------------------|-------------|
| Nozzle plate <sup>(1)</sup>              | 1050 - 2000 |
| Lateral manhole Ø 225 mm <sup>(5)</sup>  | 1050 - 2000 |
| Lateral manhole Ø 400 mm <sup>(5)</sup>  | 1050 - 2000 |
| Mirilla Ø 135 mm <sup>(M)</sup>          | 1050 - 2000 |
| Vinylester. Uso con ozono <sup>(4)</sup> | 1050 - 2000 |
| Use with salt water <sup>(5)</sup>       | 1050 - 2000 |
| Use with drinking water <sup>(6)</sup>   | 1050 - 2000 |
| UV resistant. Outdoor use                | 1050 - 2000 |
| Air scouring connections 2"              | 1050 - 2000 |

<sup>(1)</sup> Nozzle plate with 0.5 mm slots suitable for air scouring.

<sup>(M)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(5)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the level of the media, rotated 45° to the left of the inlet/outlet by default. It can be modified as per your requirements.

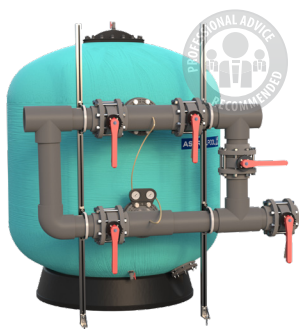
<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m <sup>3</sup> | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------------------|-------------------------|
| 1050      | 685           | 85            | 1950      | 1300      | 760         | 120              | 1.9                               | 2000                    |
| 1200      | 680           | 85            | 1970      | 1300      | 860         | 154              | 2.7                               | 2700                    |
| 1400      | 685           | 85            | 2000      | 1300      | 1020        | 173              | 3.7                               | 3700                    |
| 1600      | 695           | 85            | 2050      | 1300      | 1150        | 235              | 5.0                               | 4900                    |
| 1800      | 710           | 85            | 2080      | 1300      | 1320        | 270              | 6.4                               | 6100                    |
| 2000      | 730           | 85            | 2150      | 1300      | 1470        | 295              | 8.7                               | 7900                    |

## BOBBIN WOUND FILTERS



## OSLO FILTERS

## BED DEPTH FILTER: 1.2 M

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid cover.
- Suitable for filtration velocity speeds of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- 2 ½" sand discharge outlet.
- Collector arms and optional nozzle plate.

Bed depth 1.2 m

Does not include valve manifold

Optional:  
Standard American sizes

For all filters with nozzle plate, a side manhole is recommended for easy discharge of media

Other specific depths may be made to order

Coding options  
according to table on  
page 158

## BED DEPTH 1 M.

| Ø Internal diameter | Filtration Area | Filtration velocity | Recommended flow | Outlet Ø | Code filter <sup>(1)</sup> |       |             | Valve manifold<br>Manual, 5-valve<br>code for 1 filter |
|---------------------|-----------------|---------------------|------------------|----------|----------------------------|-------|-------------|--------------------------------------------------------|
|                     |                 |                     |                  |          | 2.5 bar                    | 4 bar | 6 bar       |                                                        |
| 1050                | 0.86            | 30                  | 25               | 75       | 04611                      | 05168 | 05168 PR 06 | 00771 BA 10                                            |
|                     |                 | 40                  | 34               | 90       | 04612                      | 05173 | 05173 PR 06 | 00776 BA 10                                            |
| 1200                | 1.13            | 30                  | 33               | 75       | 04613                      | 05169 | 05169 PR 06 | 00771 BA 12                                            |
|                     |                 | 40                  | 45               | 110      | 04650                      | 05174 | 05174 PR 06 | 00780 BA 12                                            |
| 1400                | 1.54            | 30                  | 46               | 90       | 04615                      | 07436 | 07436 PR 06 | 00776 BA 14                                            |
|                     |                 | 40                  | 61               | 125      | 04616                      | 07437 | 07437 PR 06 | 00785 BA 14                                            |
| 1600                | 2.01            | 30                  | 60               | 110      | 04619                      | 05170 | 05170 PR 06 | 00780 BA 16                                            |
|                     |                 | 40                  | 80               | 140      | 04651                      | 05175 | 05175 PR 06 | 00789 BA 16                                            |
| 1800                | 2.54            | 30                  | 76               | 125      | 04623                      | 07438 | 07438 PR 06 | 00785 BA 18                                            |
|                     |                 | 40                  | 101              | 160      | 04624                      | 07439 | 07439 PR 06 | 09177 BA 18                                            |
| 2000                | 3.14            | 30                  | 94               | 125      | 04626                      | 05171 | 05171 PR 06 | 00785 BA 20                                            |
|                     |                 | 40                  | 125              | 160      | 04652                      | 05176 | 05176 PR 06 | 09177 BA 20                                            |
| 2200                | 3.80            | 30                  | 114              | 140      | 56935                      | 57810 | 57810 PR 06 | 00789 BA 22                                            |
|                     |                 | 40                  | 152              | 160      | 56936                      | 57811 | 57811 PR 06 | 09177 BA 22                                            |
| 2350                | 4.34            | 30                  | 130              | 140      | 08693                      | 05172 | 05172 PR 06 | 00789 BA 23                                            |
|                     |                 | 40                  | 175              | 200      | 08694                      | 05177 | 05177 PR 06 | 09180 BA 23                                            |
| 2500                | 4.90            | 30                  | 150              | 160      | 08704                      | 08712 | 08712 PR 06 | 09177 BA 25                                            |
|                     |                 | 40                  | 200              | 225      | 08706                      | 08714 | 08714 PR 06 | 09185 BA 25                                            |
| 3000*               | 7.07            | 30                  | 212              | 200      | 08708                      | 08716 | 08716 PR 06 | 09180 BA 30                                            |
|                     |                 | 40                  | 282              | 250      | 08710                      | 08718 | 08718 PR 06 | 19133 BA 30                                            |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold

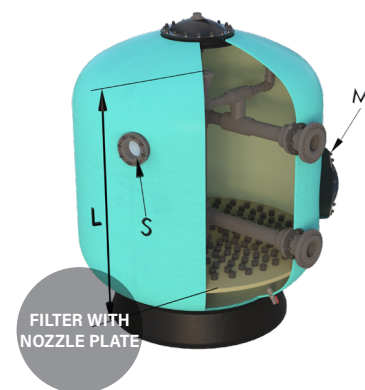
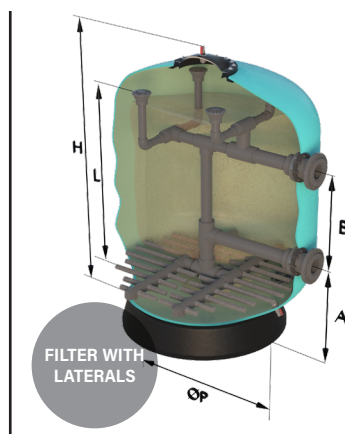
\*Filters with a diameter greater than 2500 require special transport

## BOBBIN WOUND FILTERS

## OSLO FILTERS



## TECHNICAL FEATURES



## STANDARD EQUIPMENT

Filter with laterals  
Collector system 0.3 mm slotsFilter with nozzle plate  
Collector system 0.5 mm slots

|                                                     |               |                                                                 |
|-----------------------------------------------------|---------------|-----------------------------------------------------------------|
| Top manhole Ø 400                                   | Ø 1050 - 3000 |                                                                 |
| Air relief ¾"                                       | Ø 1050 - 3000 |                                                                 |
| Air relief 2"                                       | -             | Ø 1050 - 3000                                                   |
| Sand drain Ø 90                                     | Ø 1050 - 1600 | Doesn't include a sand drain. A lateral Manhole is recommended. |
| Sand drain Ø 140                                    | Ø1800 - 3000  |                                                                 |
| Water drain ¾"                                      | Ø 1050 - 3000 |                                                                 |
| Air scouring connections 2" (Nozzle plate filters)  | -             | Ø 1050 -2350                                                    |
| Air scouring connection Ø 75 (Nozzle plate filters) | -             | Ø 2500 - 3000                                                   |

## OPTIONS TABLE

## Ø (mm)

## Pressure (bar)

|                                        |          |             |             |
|----------------------------------------|----------|-------------|-------------|
| Nozzle plate <sup>(1)</sup>            |          | 1050 - 3000 | 2.5 - 4 - 6 |
| Lateral Manhole <sup>(M)</sup>         | Ø 225 mm | 1050 - 3000 | 2.5 - 4 - 6 |
|                                        | Ø 400 mm | 1050 - 3000 | 2.5 - 4 - 6 |
|                                        | Ø 500 mm | 1050 - 3000 | 2.5 - 4     |
| Sight Glass <sup>(S)</sup>             | Ø 135 mm | 1050 - 3000 | 2.5 - 4     |
|                                        | Ø 200 mm | 1050 - 3000 | 2.5 - 4 - 6 |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 3000 | 2.5 - 4 - 6 |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 3000 | 2.5 - 4 - 6 |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 3000 | 2.5 - 4 - 6 |
| UV resistant. Outdoor use              |          | 1050 - 3000 | 2.5 - 4 - 6 |
| Top manhole                            | Ø 500 mm | 1050 - 3000 | 2.5 - 4     |
|                                        | Ø 600 mm | 1050 - 3000 | 2.5 - 4     |

<sup>(1)</sup> Nozzle plate with 0.5 mm slots suitable for air scouring. Consult for nozzles with 0.2 mm slots.

<sup>(M)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(S)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the level of the media, rotated 45° to the left of the inlet/outlet by default. It can be modified as per your requirements.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

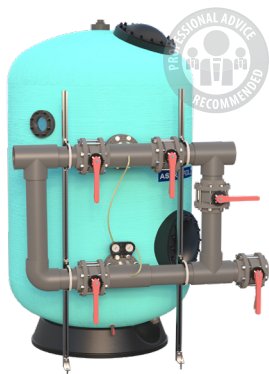
| Ø<br>(mm) | A (H)<br>(mm) | B (M)<br>(mm) | H<br>(mm) | L<br>(mm) | Ø P<br>(mm) | Net Weight<br>kg | Standard Volume<br>m³ | Weight in service<br>kg |
|-----------|---------------|---------------|-----------|-----------|-------------|------------------|-----------------------|-------------------------|
| 1050      | 650           | 940           | 2070      | 1525      | 750         | 207              | 2.5                   | 2450                    |
| 1200      | 670           | 830           | 2080      | 1525      | 940         | 234              | 3.2                   | 3000                    |
| 1400      | 680           | 820           | 2175      | 1550      | 1085        | 294              | 4.7                   | 4300                    |
| 1600      | 780           | 800           | 2310      | 1600      | 1230        | 360              | 6.2                   | 5825                    |
| 1800      | 790           | 780           | 2320      | 1600      | 1370        | 416              | 8.5                   | 7300                    |
| 2000      | 790           | 840           | 2460      | 1600      | 1550        | 483              | 10.3                  | 9000                    |
| 2200      | 960           | 700           | 2580      | 1650      | 1860        | 567              | 14.8                  | 12500                   |
| 2350      | 1065          | 700           | 2720      | 1700      | 1860        | 651              | 15.8                  | 13750                   |
| 2500      | 1125          | 450           | 2750      | 1700      | 2000        | 820              | 20.8                  | 14885                   |
| 3000      | 1150          | 600           | 2950      | 1700      | 2365        | 1300             | 31                    | 21615                   |

## BOBBIN WOUND FILTERS

### OLOT FILTERS

Designed following the guidelines of the standards DIN 19605/19643

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, and water purge valves.
- Ø 400 mm top lid and Ø 400 lateral manhole included.
- All filters can be assembled with valve manifold.
- Nozzle plate included.



Bed depth 1.2 m and 1.5 m

Does not include valve manifold

Other specific heights may be made to order

All Ø 3000 mm filters need special shipping

Coding options according to table on page 158

|                     |                 |                     |                  |          | Bed depth 1.2 m            |                 | Bed depth 1.5 m |                 |                                                  |
|---------------------|-----------------|---------------------|------------------|----------|----------------------------|-----------------|-----------------|-----------------|--------------------------------------------------|
| Ø Internal diameter | Filtration Area | Filtration velocity | Recommended flow | Outlet Ø | Code filter <sup>(1)</sup> |                 |                 |                 | Valve manifold Manual, 5-valve code for 1 filter |
|                     |                 |                     |                  |          | Bed depth 1.2 m            |                 | Bed depth 1.5 m |                 |                                                  |
|                     |                 |                     |                  |          | 2.5 bar                    | 4 bar           | 2.5 bar         | 4 bar           |                                                  |
| mm                  | m²              | m³/h/m²             | m³/h/m²          | mm       | 2.5 bar                    | 4 bar           | 2.5 bar         | 4 bar           |                                                  |
| 1050                | 0.87            | 30                  | 25               | 110      | 07355-120                  | 07355-120 PR 04 | 18227-120       | 18227-120 PR 04 | 00780 OL 10                                      |
| 1200                | 1.13            | 30                  | 33               | 125      | 07356-120                  | 07356-120 PR 04 | 18228-120       | 18228-120 PR 04 | 00785 OL 12                                      |
| 1400                | 1.54            | 30                  | 46               | 140      | 07447-120                  | 07447-120 PR 04 | 18229-120       | 18229-120 PR 04 | 00789 OL 14                                      |
| 1600                | 2.01            | 30                  | 60               | 160      | 07357-120                  | 07357-120 PR 04 | 18230-120       | 18230-120 PR 04 | 09177 OL 16                                      |
| 1800                | 2.54            | 30                  | 76               | 200      | 07448-120                  | 07448-120 PR 04 | 18231-120       | 18231-120 PR 04 | 09180 OL 18                                      |
| 2000                | 3.14            | 30                  | 94               | 225      | 07358-120                  | 07358-120 PR 04 | 18232-120       | 18232-120 PR 04 | 09185 OL 20                                      |
| 2200                | 3.80            | 30                  | 114              | 225      | 56934-120                  | 56934-120 PR 04 | 65547-120       | 65547-120 PR 04 | 09185 OL 22                                      |
| 2350                | 4.34            | 30                  | 130              | 250      | 07359-120                  | 07359-120 PR 04 | 18233-120       | 18233-120 PR 04 | 19133 OL 23                                      |
| 2500                | 4.91            | 30                  | 150              | 250      | 19335-120                  | 19335-120 PR 04 | 19337-120       | 19337-120 PR 04 | 19133 OL 25                                      |
| 2600                | 5.31            | 30                  | 160              | 250      | 23969-120                  | 23969-120 PR 04 | 23971-120       | 23971-120 PR 04 | 19133 OL 26                                      |
| 2800                | 6.16            | 30                  | 185              | 250      | 23970-120                  | 23970-120 PR 04 | 23972-120       | 23972-120 PR 04 | 19133 OL 28                                      |
| 3000                | 7.07            | 30                  | 212              | 250      | 19336-120                  | 19336-120 PR 04 | 19338-120       | 19338-120 PR 04 | 19133 OL 30                                      |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold.

\*Filters with a diameter greater than 2500 require special transport.

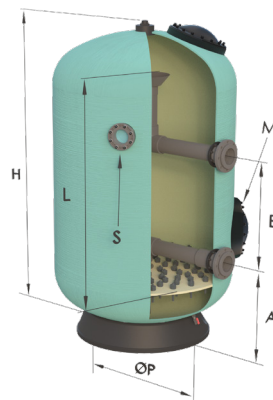
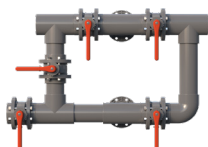
## BOBBIN WOUND FILTERS

## OLOT FILTERS

ASTRALPOOL

## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
160 and 163



## STANDARD EQUIPMENT

## Filter with laterals

|                              |               |
|------------------------------|---------------|
| Nozzle plate 0.5 mm Slots    | Ø 1050 - 3000 |
| Top manhole Ø 400            | Ø 1050 - 3000 |
| Air relief 2"                | Ø 1050 - 2000 |
| Air relief Ø 75              | Ø 2200 - 3000 |
| Water drain 3/4"             | Ø 1050 - 3000 |
| Airscouring connection 2"    | Ø 1050 - 1600 |
| Airscouring connection Ø 75  | Ø 1800 - 2500 |
| Airscouring connection Ø 90  | Ø 2600        |
| Airscouring connection Ø 110 | Ø 2800        |
| Airscouring connection Ø 140 | Ø 3000        |

| OPTIONS TABLE                           | Ø (mm)      | Pressure (bar) |
|-----------------------------------------|-------------|----------------|
| Lateral manhole Ø 500 mm <sup>(M)</sup> | 1050 - 3000 | 2.5 - 4        |
| Sight glass Ø 135 mm <sup>(S)</sup>     |             |                |
| Sight glass Ø 200 mm <sup>(S)</sup>     |             |                |
| Vinylester. Ozone use <sup>(4)</sup>    |             |                |
| Use with salt water <sup>(5)</sup>      |             |                |
| Use with drinking water <sup>(6)</sup>  |             |                |
| UV resistant. Outdoor use               |             |                |
| Top manhole Ø 500 mm                    |             |                |

<sup>(1)</sup> Nozzle plate with 0.5 mm slots suitable for air scouring. Consult for nozzles with 0.2 mm slots.

<sup>(M)</sup> Recommendation: The lateral manhole option is for all filters with nozzle plate or with laterals, whose height (H) is higher than 2 m. The main reason is to facilitate the access to the interior without working at height. More than one lateral manhole can be installed. The distance between the inlet/outlet ports and the manhole is always the same, rotated 45° to the right by default. It can be modified as per your requirements.

<sup>(S)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the Bed depth. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø    | A (H) | B (M) | H                  |                    | L                  |                    | Ø P  | Net Weight | Standard Volume | Weight in service |
|------|-------|-------|--------------------|--------------------|--------------------|--------------------|------|------------|-----------------|-------------------|
|      |       |       | Bed depth<br>1.2 m | Bed depth<br>1.5 m | Bed depth<br>1.2 m | Bed depth<br>1.5 m |      |            |                 |                   |
| (mm) | (mm)  | (mm)  | (mm)               |                    | (mm)               |                    | (mm) | kg         | m <sup>3</sup>  | kg                |
| 1050 | 700   | 1000  | 2380               | 2680               | 1700               | 2000               | 730  | 285        | 3.21            | 3000              |
| 1200 | 700   | 1000  | 2400               | 2700               |                    |                    | 940  | 385        | 4.2             | 3900              |
| 1400 | 830   | 900   | 2420               | 2720               |                    |                    | 1080 | 420        | 5.68            | 5300              |
| 1600 | 830   | 950   | 2520               | 2820               |                    |                    | 1230 | 460        | 7.69            | 7150              |
| 1800 | 900   | 920   | 2570               | 2870               |                    |                    | 1390 | 515        | 9.58            | 8750              |
| 2000 | 950   | 760   | 2660               | 2960               |                    |                    | 1550 | 625        | 12.9            | 11250             |
| 2200 | 950   | 750   | 2690               | 2990               |                    |                    | 1860 | 774        | 15.3            | 13130             |
| 2350 | 1050  | 680   | 2800               | 3100               |                    |                    | 1850 | 920        | 17.5            | 15800             |
| 2500 | 1100  | 600   | 2850               | 3150               |                    |                    | 2050 | 1010       | 25.87           | 17950             |
| 2600 | 1160  | 600   | 2920               | 3220               |                    |                    | 2050 | 1144       | 26.51           | 19400             |
| 2800 | 1230  | 650   | 3030               | 3330               |                    |                    | 2200 | 1264       | 30.63           | 22600             |
| 3000 | 1140  | 600   | 2900               | 3200               |                    |                    | 2360 | 1590       | 32.12           | 26250             |

## BOBBIN WOUND FILTERS



### RO-DAS 1050 - 1200 FILTERS

#### HORIZONTAL FILTERS

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, air and water purge valves.
- Ø 140 mm top lid.
- Ø 400 mm side lid.
- Ø 140 sand discharge.
- All filters can be assembled with valve manifold.



Bed depth 0.6 m

Coding options  
according to table on  
page 158

| Ø<br>Internal<br>diameter | Effective<br>length | Filtration<br>Area | Filtration<br>velocity | Recommended<br>flow | Outlet<br>Ø | Code filter |       |             | Valve mani-<br>fold Manual,<br>5-valve code<br>for 1 filter |
|---------------------------|---------------------|--------------------|------------------------|---------------------|-------------|-------------|-------|-------------|-------------------------------------------------------------|
|                           |                     |                    |                        |                     |             | 2.5 bar     | 4 bar | 6 bar       |                                                             |
| 1050                      | 1900                | 1.72               | 20                     | 34                  | 75          | 05102       | 07124 | 07124 PR 06 | 00771 HZ 10                                                 |
|                           |                     |                    | 30                     | 52                  | 90          | 05105       | 07125 | 07125 PR 06 | 00776 HZ 10                                                 |
|                           |                     |                    | 40                     | 69                  | 110         | 05108       | 07126 | 07126 PR 06 | 00780 HZ 10                                                 |
|                           | 2300                | 2.12               | 20                     | 42                  | 110         | 11331       | 11321 | 11321 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 64                  | 125         | 11332       | 11322 | 11322 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 85                  | 140         | 11333       | 11323 | 11323 PR 06 | 00789 HZ 10                                                 |
|                           | 2500                | 2.32               | 20                     | 46                  | 110         | 24842       | 25016 | 25016 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 70                  | 125         | 24843       | 25017 | 25017 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 93                  | 140         | 24844       | 25018 | 25018 PR 06 | 00789 HZ 10                                                 |
|                           | 2700                | 2.51               | 20                     | 50                  | 110         | 11334       | 11326 | 11326 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 75                  | 125         | 11335       | 11327 | 11327 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 100                 | 140         | 11336       | 11328 | 11328 PR 06 | 00789 HZ 10                                                 |
|                           | 3000                | 2.81               | 20                     | 56                  | 110         | 22647       | 22683 | 22683 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 84                  | 140         | 22648       | 22684 | 22684 PR 06 | 00789 HZ 10                                                 |
|                           |                     |                    | 40                     | 112                 | 160         | 22649       | 20895 | 20895 PR 06 | 09177 HZ 10                                                 |
| 1200                      | 1900                | 1.96               | 20                     | 39                  | 110         | 22650       | 22685 | 22685 PR 06 | 09177 HZ 12                                                 |
|                           |                     |                    | 30                     | 59                  | 125         | 22651       | 22686 | 22686 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 40                     | 79                  | 140         | 22652       | 22687 | 22687 PR 06 | 00789 HZ 12                                                 |
|                           | 2300                | 2.42               | 20                     | 3                   | 110         | 22653       | 22688 | 22688 PR 06 | 09177 HZ 12                                                 |
|                           |                     |                    | 30                     | 73                  | 140         | 22654       | 22689 | 22689 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 97                  | 160         | 22655       | 20897 | 20897 PR 06 | 09177 HZ 12                                                 |
|                           | 2500                | 2.65               | 20                     | 53                  | 125         | 24845       | 25019 | 25019 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 79                  | 140         | 24846       | 25020 | 25020 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 106                 | 160         | 24847       | 25021 | 25021 PR 06 | 09177 HZ 12                                                 |
|                           | 2700                | 2.87               | 20                     | 57                  | 125         | 22656       | 22690 | 22690 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 86                  | 140         | 22657       | 22691 | 22691 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 115                 | 160         | 22658       | 20898 | 20898 PR 06 | 09177 HZ 12                                                 |
|                           | 3000                | 3.21               | 20                     | 64                  | 125         | 22659       | 22692 | 22692 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 96                  | 140         | 22660       | 22693 | 22693 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 129                 | 160         | 22661       | 20899 | 20899 PR 06 | 09177 HZ 12                                                 |

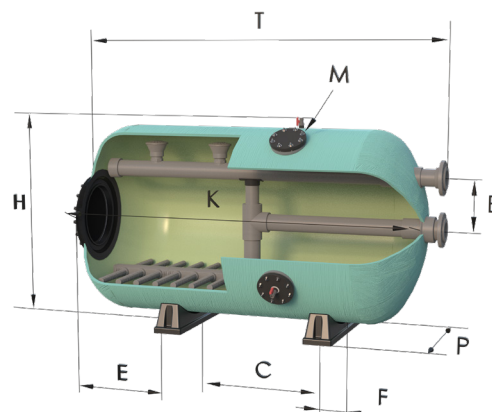
## BOBBIN WOUND FILTERS

## RODAS 1050 - 1200 FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
161 and 163



## STANDARD EQUIPMENT

|                       |               |
|-----------------------|---------------|
| Laterals 0.3 mm slots | Ø 1050 - 2500 |
| Lateral manhole Ø 400 | Ø 1050 - 1200 |
| Top manhole Ø 400     | Ø 1400 - 2500 |
| Top manhole Ø 140     | Ø 1050 - 1200 |
| Air relief 3/4"       | Ø 1050 - 2500 |
| Sand drain Ø 140      | Ø 1050 - 2500 |
| Water drain 3/4"      | Ø 1050 - 2500 |

| OPTIONS TABLE                          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|-------------|----------------|
| Sight glass Ø 135 mm <sup>(3)</sup>    | 1050 - 2500 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>   | 1050 - 2500 | 2.5 - 4 - 6    |
| Use with salt water <sup>(5)</sup>     | 1050 - 2500 | 2.5 - 4 - 6    |
| Use with drinking water <sup>(6)</sup> | 1050 - 2500 | 2.5 - 4 - 6    |
| UV resistant. Outdoor use              | 1050 - 2500 | 2.5 - 4 - 6    |

<sup>(3)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

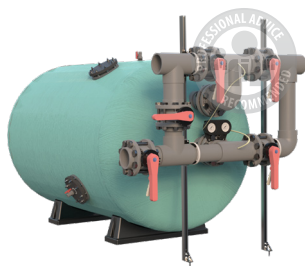
<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| K<br>(mm) | Ø P<br>(mm) | F<br>(mm) | C<br>(mm) | E<br>(mm) | T<br>(mm) | Standard<br>Volume<br>m³ | Weight in service<br>kg | Net Weight<br>kg |
|-----------|-------------|-----------|-----------|-----------|-----------|--------------------------|-------------------------|------------------|
| 1900      | 800         | 190       | 760       | 380       | 2160      | 2.95                     | 2530                    | 270              |
| 2300      |             |           | 1000      | 460       | 2560      | 3.57                     | 3100                    | 330              |
| 2500      |             |           | 1120      | 500       | 2760      | 3.88                     | 3380                    | 355              |
| 2700      |             |           | 1240      | 540       | 2960      | 4.20                     | 3670                    | 380              |
| 3000      |             |           | 1420      | 600       | 3260      | 4.67                     | 4100                    | 420              |
| 1900      | 900         | 200       | 760       | 380       | 2130      | 3.08                     | 3220                    | 310              |
| 2300      |             |           | 1000      | 460       | 2530      | 3.73                     | 3960                    | 375              |
| 2500      |             |           | 1120      | 500       | 2750      | 4.05                     | 4320                    | 410              |
| 2700      |             |           | 1240      | 540       | 2950      | 4.38                     | 4690                    | 440              |
| 3000      |             |           | 1420      | 600       | 3250      | 4.86                     | 5240                    | 480              |

## BOBBIN WOUND FILTERS



### RODAS 1400 - 1600 - 1800 FILTERS



#### HORIZONTAL FILTERS

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, air and water purge valves.
- Ø 400 mm top lid.
- Ø 140 sand discharge.
- All filters can be assembled with valve manifold.



| Ø<br>Internal<br>diameter | Effective<br>length | Filtration<br>Area | Filtration<br>velocity | Recommended<br>flow | Outlet<br>Ø | Code filter |       |             | Valve mani-<br>fold Manual,<br>5-valve code<br>for 1 filter |
|---------------------------|---------------------|--------------------|------------------------|---------------------|-------------|-------------|-------|-------------|-------------------------------------------------------------|
|                           |                     |                    |                        |                     |             | 2.5 bar     | 4 bar | 6 bar       |                                                             |
| 1400                      | 1900                | 2.23               | 20                     | 45                  | 110         | 24848       | 25022 | 25022 PR 06 | 00780 HZ 14                                                 |
|                           |                     |                    | 30                     | 67                  | 125         | 24849       | 25023 | 25023 PR 06 | 00785 HZ 14                                                 |
|                           |                     |                    | 40                     | 89                  | 140         | 24850       | 25024 | 25024 PR 06 | 00789 HZ 14                                                 |
|                           | 2500                | 3.02               | 20                     | 60                  | 110         | 24854       | 25028 | 25028 PR 06 | 00780 HZ 14                                                 |
|                           |                     |                    | 30                     | 91                  | 140         | 24855       | 25029 | 25029 PR 06 | 00789 HZ 14                                                 |
|                           |                     |                    | 40                     | 121                 | 160         | 24856       | 25030 | 25030 PR 06 | 09177 HZ 14                                                 |
|                           | 3000                | 3.67               | 20                     | 73                  | 125         | 24860       | 25034 | 25034 PR 06 | 00785 HZ 14                                                 |
|                           |                     |                    | 30                     | 110                 | 160         | 24861       | 25035 | 25035 PR 06 | 09177 HZ 14                                                 |
|                           |                     |                    | 40                     | 147                 | 200         | 24862       | 25036 | 25036 PR 06 | 09180 HZ 14                                                 |
|                           | 1600                | 1900               | 20                     | 49                  | 110         | 22662       | 22694 | 22694 PR 06 | 00780 HZ 16                                                 |
|                           |                     |                    | 30                     | 74                  | 140         | 22663       | 22695 | 22695 PR 06 | 00789 HZ 16                                                 |
|                           |                     |                    | 40                     | 99                  | 160         | 22664       | 20900 | 20900 PR 06 | 09177 HZ 16                                                 |
|                           |                     | 2500               | 20                     | 67                  | 140         | 24866       | 25040 | 25040 PR 06 | 00789 HZ 16                                                 |
|                           |                     |                    | 30                     | 101                 | 160         | 24867       | 25041 | 25041 PR 06 | 09177 HZ 16                                                 |
|                           |                     |                    | 40                     | 134                 | 200         | 24868       | 25042 | 25042 PR 06 | 09180 HZ 16                                                 |
|                           |                     | 3000               | 20                     | 82                  | 140         | 22671       | 22700 | 22700 PR 06 | 00789 HZ 16                                                 |
|                           |                     |                    | 30                     | 123                 | 160         | 22672       | 22701 | 22701 PR 06 | 09177 HZ 16                                                 |
|                           |                     |                    | 40                     | 164                 | 200         | 22673       | 20903 | 20903 PR 06 | 09180 HZ 16                                                 |
| 1800                      | 2500                | 3.74               | 20                     | 75                  | 125         | 24875       | 25049 | 25049 PR 06 | 00785 HZ 18                                                 |
|                           |                     |                    | 30                     | 112                 | 160         | 24876       | 25050 | 25050 PR 06 | 09177 HZ 18                                                 |
|                           |                     |                    | 40                     | 150                 | 200         | 24877       | 25051 | 25051 PR 06 | 09180 HZ 18                                                 |
|                           | 3000                | 4.58               | 20                     | 92                  | 140         | 24881       | 25055 | 25055 PR 06 | 00789 HZ 18                                                 |
|                           |                     |                    | 30                     | 137                 | 160         | 24882       | 25056 | 25056 PR 06 | 09177 HZ 18                                                 |
|                           |                     |                    | 40                     | 183                 | 200         | 24883       | 25057 | 25057 PR 06 | 09180 HZ 18                                                 |
|                           | 3500                | 5.41               | 20                     | 108                 | 140         | 24887       | 25061 | 25061 PR 06 | 00789 HZ 18                                                 |
|                           |                     |                    | 30                     | 162                 | 200         | 24888       | 25062 | 25062 PR 06 | 09180 HZ 18                                                 |
|                           |                     |                    | 40                     | 216                 | 225         | 24889       | 25063 | 25063 PR 06 | 09185 HZ 18                                                 |
|                           | 4000                | 6.25               | 20                     | 125                 | 160         | 24893       | 25067 | 25067 PR 06 | 09177 HZ 18                                                 |
|                           |                     |                    | 30                     | 187                 | 200         | 24894       | 25068 | 25068 PR 06 | 09180 HZ 18                                                 |
|                           |                     |                    | 40                     | 250                 | 225         | 24895       | 25069 | 25069 PR 06 | 09185 HZ 18                                                 |

The filter code does not include filter media or Valve manifold

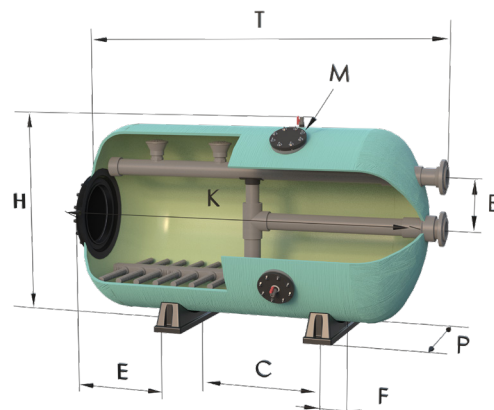
## BOBBIN WOUND FILTERS

## RODAS 1400 - 1600 - 1800 FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
161 and 163



## STANDARD EQUIPMENT

|                       |               |
|-----------------------|---------------|
| Laterals 0.3 mm slots | Ø 1050 - 2500 |
| Lateral manhole Ø 400 | Ø 1050 - 1200 |
| Top manhole Ø 400     | Ø 1400 - 2500 |
| Top manhole Ø 140     | Ø 1050 - 1200 |
| Air relief 3/4"       | Ø 1050 - 2500 |
| Sand drain Ø 140      | Ø 1050 - 2500 |
| Water drain 3/4"      | Ø 1050 - 2500 |

| OPTIONS TABLE                          |          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|----------|-------------|----------------|
| Sight glass <sup>(4)</sup>             | Ø 135 mm | 1050 - 3000 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 3000 | 2.5 - 4 - 6    |
| UV resistant. Outdoor use              |          | 1050 - 3000 | 2.5 - 4 - 6    |

<sup>(4)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

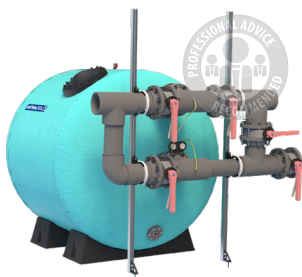
<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | B<br>(mm) | H<br>(mm) | K<br>(mm) | Ø P<br>(mm) | F<br>(mm) | C<br>(mm) | E<br>(mm) | T<br>(mm) | Standard<br>Volume<br>m <sup>3</sup> | Weight in<br>service<br>kg | Net<br>Weight<br>kg |
|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|--------------------------------------|----------------------------|---------------------|
| 1400      | 390       | 1600      | 1900      | 1080        | 210       | 720       | 380       | 2160      | 4.84                                 | 4250                       | 385                 |
|           |           |           | 2500      |             |           | 1080      | 500       | 2780      | 6.23                                 | 5740                       | 485                 |
|           |           |           | 3000      |             |           | 1380      | 600       | 3320      | 7.44                                 | 6990                       | 585                 |
| 1600      | 475       | 1830      | 1900      | 1230        | 240       | 470       | 475       | 2220      | 5.49                                 | 5420                       | 450                 |
|           |           |           | 2500      |             |           | 1020      | 500       | 2820      | 7.18                                 | 7400                       | 570                 |
|           |           |           | 3000      |             |           | 1320      | 600       | 3360      | 8.6                                  | 9020                       | 685                 |
| 1800      | 550       | 2050      | 2500      | 1380        | 270       | 1020      | 380       | 2820      | 10.4                                 | 9170                       | 680                 |
|           |           |           | 3000      |             |           | 1320      | 460       | 3320      | 12.25                                | 11230                      | 805                 |
|           |           |           | 3500      |             |           | 1620      | 500       | 3850      | 14.2                                 | 13290                      | 930                 |
|           |           |           | 4000      |             |           | 1920      | 540       | 4350      | 16                                   | 15350                      | 1055                |

BOBBIN WOUND FILTERS



# RODAS 2000 - 2350 FILTERS



## HORIZONTAL FILTERS

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, air and water purge valves.
- Ø 400 mm top lid.
- Ø 140 sand discharge.
- All filters can be assembled with valve manifold.



Bed depth 1.2 m

Does not include  
Valve manifold

Coding options  
according to table on  
page 158

Optional:  
Standard American  
sizes

| Ø<br>Internal<br>diameter | Effective<br>length | Filtration<br>Area | Filtration<br>velocity | Recommended<br>flow | Outlet<br>Ø | Code filter |       |             | Valve mani-<br>fold Manual,<br>5-valve code<br>for 1 filter |
|---------------------------|---------------------|--------------------|------------------------|---------------------|-------------|-------------|-------|-------------|-------------------------------------------------------------|
|                           |                     |                    |                        |                     |             | 2.5 bar     | 4 bar | 6 bar       |                                                             |
| 2000                      | 1900                | 1.72               | 20                     | 34                  | 75          | 05102       | 07124 | 07124 PR 06 | 00771 HZ 10                                                 |
|                           |                     |                    | 30                     | 52                  | 90          | 05105       | 07125 | 07125 PR 06 | 00776 HZ 10                                                 |
|                           |                     |                    | 40                     | 69                  | 110         | 05108       | 07126 | 07126 PR 06 | 00780 HZ 10                                                 |
|                           | 2300                | 2.12               | 20                     | 42                  | 110         | 11331       | 11321 | 11321 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 64                  | 125         | 11332       | 11322 | 11322 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 85                  | 140         | 11333       | 11323 | 11323 PR 06 | 00789 HZ 10                                                 |
|                           | 2500                | 2.32               | 20                     | 46                  | 110         | 24842       | 25016 | 25016 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 70                  | 125         | 24843       | 25017 | 25017 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 93                  | 140         | 24844       | 25018 | 25018 PR 06 | 00789 HZ 10                                                 |
|                           | 2700                | 2.51               | 20                     | 50                  | 110         | 11334       | 11326 | 11326 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 75                  | 125         | 11335       | 11327 | 11327 PR 06 | 00785 HZ 10                                                 |
|                           |                     |                    | 40                     | 100                 | 140         | 11336       | 11328 | 11328 PR 06 | 00789 HZ 10                                                 |
|                           | 3000                | 2.81               | 20                     | 56                  | 110         | 22647       | 22683 | 22683 PR 06 | 00780 HZ 10                                                 |
|                           |                     |                    | 30                     | 84                  | 140         | 22648       | 22684 | 22684 PR 06 | 00789 HZ 10                                                 |
|                           |                     |                    | 40                     | 112                 | 160         | 22649       | 20895 | 20895 PR 06 | 09177 HZ 10                                                 |
| 2350                      | 1900                | 1.96               | 20                     | 39                  | 110         | 22650       | 22685 | 22685 PR 06 | 09177 HZ 12                                                 |
|                           |                     |                    | 30                     | 59                  | 125         | 22651       | 22686 | 22686 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 40                     | 79                  | 140         | 22652       | 22687 | 22687 PR 06 | 00789 HZ 12                                                 |
|                           | 2300                | 2.42               | 20                     | 3                   | 110         | 22653       | 22688 | 22688 PR 06 | 09177 HZ 12                                                 |
|                           |                     |                    | 30                     | 73                  | 140         | 22654       | 22689 | 22689 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 97                  | 160         | 22655       | 20897 | 20897 PR 06 | 09177 HZ 12                                                 |
|                           | 2500                | 2.65               | 20                     | 53                  | 125         | 24845       | 25019 | 25019 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 79                  | 140         | 24846       | 25020 | 25020 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 106                 | 160         | 24847       | 25021 | 25021 PR 06 | 09177 HZ 12                                                 |
|                           | 2700                | 2.87               | 20                     | 57                  | 125         | 22656       | 22690 | 22690 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 86                  | 140         | 22657       | 22691 | 22691 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 115                 | 160         | 22658       | 20898 | 20898 PR 06 | 09177 HZ 12                                                 |
|                           | 3000                | 3.21               | 20                     | 64                  | 125         | 22659       | 22692 | 22692 PR 06 | 00785 HZ 12                                                 |
|                           |                     |                    | 30                     | 96                  | 140         | 22660       | 22693 | 22693 PR 06 | 00789 HZ 12                                                 |
|                           |                     |                    | 40                     | 129                 | 160         | 22661       | 20899 | 20899 PR 06 | 09177 HZ 12                                                 |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold

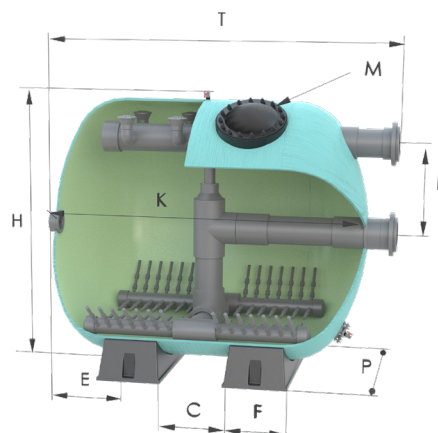
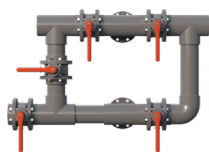
## BOBBIN WOUND FILTERS

## RODAS 2000 - 2350 FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
161 and 163



## STANDARD EQUIPMENT

|                       |               |
|-----------------------|---------------|
| Laterals 0.3 mm slots | Ø 1050 - 2500 |
| Lateral manhole Ø 400 | Ø 1050 - 1200 |
| Top manhole Ø 400     | Ø 1400 - 2500 |
| Top manhole Ø 140     | Ø 1050 - 1200 |
| Air relief 3/4"       | Ø 1050 - 2500 |
| Sand drain Ø 140      | Ø 1050 - 2500 |
| Water drain 3/4"      | Ø 1050 - 2500 |

| OPTIONS TABLE                          |          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|----------|-------------|----------------|
| Sight glass <sup>(4)</sup>             | Ø 135 mm | 1050 - 3000 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 3000 | 2.5 - 4 - 6    |
| UV resistant. Outdoor use              |          | 1050 - 3000 | 2.5 - 4 - 6    |

<sup>(4)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | B<br>(mm) | H<br>(mm) | K<br>(mm) | Ø P<br>(mm) | F<br>(mm) | C<br>(mm) | E<br>(mm) | T<br>(mm) | Standard<br>Volume<br>m³ | Weight in<br>service<br>kg | Net<br>Weight<br>kg |
|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|--------------------------|----------------------------|---------------------|
| 2000      | 710       | 2220      | 2500      | 1470        | 500       | 500       | 500       | 2820      | 13.2                     | 11300                      | 795                 |
|           |           |           | 3000      |             |           | 810       | 600       | 3320      | 15.65                    | 13790                      | 945                 |
|           |           |           | 3500      |             |           | 1070      | 725       | 3850      | 18.1                     | 16280                      | 1100                |
|           |           |           | 4000      |             |           | 650       | 600       | 4350      | 20.55                    | 18780                      | 1260                |
|           |           |           | 4500      |             |           | 795       |           | 4880      | 23                       | 21380                      | 1420                |
|           |           |           |           |             |           |           |           |           |                          |                            |                     |
| 2350      | 710       | 2560      | 3000      | 1740        | 500       | 800       | 600       | 3350      | 20.25                    | 18300                      | 1150                |
|           |           |           | 3500      |             |           | 1100      | 700       | 3850      | 23                       | 21790                      | 1300                |
|           |           |           | 4000      |             |           | 650       | 600       | 4380      | 25.75                    | 25280                      | 1450                |
|           |           |           | 4500      |             |           | 820       | 700       | 4880      | 28.5                     | 28880                      | 1600                |
|           |           |           | 5000      |             |           | 600       | 600       | 5440      | 32.25                    | 32380                      | 1750                |
|           |           |           |           |             |           |           |           |           |                          |                            |                     |

## BOBBIN WOUND FILTERS



### RODAS 2500 FILTERS



#### General features:

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, air and water purge valves.
- Ø 400 mm top lid.
- Ø 140 sand discharge.
- All filters can be assembled with valve manifold.



Bed depth 1.2 m

Does not include  
Valve manifold

Coding options  
according to table on  
page 158

Optional:  
Standard American  
sizes

Large filters of more  
than 3000 mm will be  
shipped by special  
delivery.  
Ask your dealer about  
additional costs.

| Ø<br>Internal<br>diameter | Effective<br>length | Filtration<br>Area | Filtration<br>velocity | Recommended<br>flow | Outlet<br>Ø | Code filter |       |             | Valve mani-<br>fold Manual,<br>5-valve code<br>for 1 filter |
|---------------------------|---------------------|--------------------|------------------------|---------------------|-------------|-------------|-------|-------------|-------------------------------------------------------------|
|                           |                     |                    |                        |                     |             | 2.5 bar     | 4 bar | 6 bar       |                                                             |
| 2500                      | 3500                | 7.34               | 20                     | 149                 | 160         | 24938       | 25112 | 25112 PR 06 | 09177 HZ 25                                                 |
|                           |                     |                    | 30                     | 223                 | 200         | 24939       | 25113 | 25113 PR 06 | 09180 HZ 25                                                 |
|                           |                     |                    | 40                     | 297                 | 225         | 24940       | 25114 | 25114 PR 06 | 09185 HZ 25                                                 |
|                           | 3000                | 8.62               | 20                     | 172                 | 200         | 22677       | 22708 | 22708 PR 06 | 09180 HZ 25                                                 |
|                           |                     |                    | 30                     | 258                 | 225         | 22678       | 22709 | 22709 PR 06 | 09185 HZ 25                                                 |
|                           |                     |                    | 40                     | 345                 | 250         | 22679       | 22710 | 22710 PR 06 | 19133 HZ 25                                                 |
|                           | 4500                | 9.80               | 20                     | 196                 | 200         | 24947       | 25121 | 25121 PR 06 | 09180 HZ 25                                                 |
|                           |                     |                    | 30                     | 294                 | 250         | 24948       | 25122 | 25122 PR 06 | 19133 HZ 25                                                 |
|                           |                     |                    | 40                     | 392                 | 315         | 24949       | 25123 | 25123 PR 06 | -                                                           |
|                           | 4000                | 10.98              | 20                     | 220                 | 200         | 22680       | 22711 | 22711 PR 06 | 09180 HZ 25                                                 |
|                           |                     |                    | 30                     | 329                 | 250         | 22681       | 22712 | 22712 PR 06 | 19133 HZ 25                                                 |
|                           |                     |                    | 40                     | 439                 | 315         | 22682       | 22713 | 22713 PR 06 | -                                                           |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold

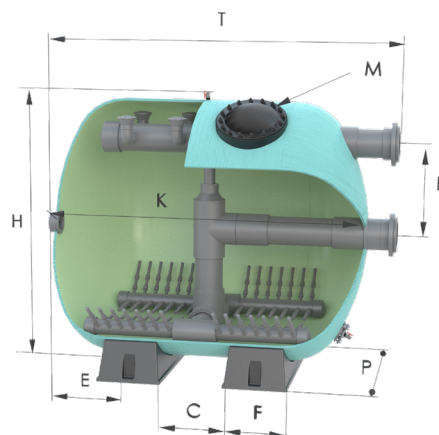
## BOBBIN WOUND FILTERS

## RODAS 2500 FILTERS



## TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
161 and 163



## STANDARD EQUIPMENT

## Filter with laterals

|                       |               |
|-----------------------|---------------|
| Laterals 0.3 mm slots | Ø 1050 - 2500 |
| Lateral manhole Ø 400 | Ø 1050 - 1200 |
| Top manhole Ø 400     | Ø 1400 - 2500 |
| Top manhole Ø 140     | Ø 1050 - 1200 |
| Air relief 3/4"       | Ø 1050 - 2500 |
| Sand drain Ø 140      | Ø 1050 - 2500 |
| Water drain 3/4"      | Ø 1050 - 2500 |

| OPTIONS TABLE                          |          | Ø (mm)      | Pressure (bar) |
|----------------------------------------|----------|-------------|----------------|
| Sight glass <sup>(3)</sup>             | Ø 135 mm | 1050 - 3000 | 2.5 - 4        |
| Vinylester. Ozone use <sup>(4)</sup>   |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with salt water <sup>(5)</sup>     |          | 1050 - 3000 | 2.5 - 4 - 6    |
| Use with drinking water <sup>(6)</sup> |          | 1050 - 3000 | 2.5 - 4 - 6    |
| UV resistant. Outdoor use              |          | 1050 - 3000 | 2.5 - 4 - 6    |

<sup>(3)</sup> More than one Sight Glass can be placed. The vertical position is standard and the center of the sight glass is placed at the height of the depth bed. The position for the connections can vary and, by default, it is placed 45° left to the connections.

<sup>(4)</sup> Maximum concentration of ozone 0.5 ppm in the water and maximum temperature 40°.

<sup>(5)</sup> Maximum allowed concentration of salt 45 gr/l (seawater).

<sup>(6)</sup> A certificate of the material suitable for use with drinking water is included.

| Ø<br>(mm) | B<br>(mm) | H<br>(mm) | K<br>(mm) | Ø P<br>(mm) | F<br>(mm) | C<br>(mm) | E<br>(mm) | T<br>(mm) | Standard<br>Volume<br>l | Weight in<br>service<br>kg | Net<br>Weight<br>kg |
|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-------------------------|----------------------------|---------------------|
| 2500      | 710       | 2710      | 3500      | 1850        | 500       | 960       | 770       | 3850      | 28                      | 24320                      | 1505                |
|           |           |           | 4000      |             |           | 500       |           | 4380      | 31.8                    | 28250                      | 1670                |
|           |           |           | 4500      |             |           | 750       | 750       | 4940      | 35.55                   | 32300                      | 1835                |
|           |           |           | 5000      |             |           | 500       |           | 5440      | 39.3                    | 36230                      | 2000                |
|           |           |           |           |             |           |           |           |           |                         |                            |                     |

## BOBBIN WOUND FILTERS



## BERLIN FILTERS



Coding options  
according to table on  
page 158

Optional:  
Standard American  
sizes

- Bobbin wound filters made of polyester resin and fibreglass.
- Equipped with pressure gauge, and manual air and water purge valves.
- Ø 400 mm top lid cover.
- Suitable for filtration velocity of 20, 30, 40 and 50 m<sup>3</sup>/h/m<sup>2</sup>.
- All filters can be assembled with valve manifold.
- Collector arms.

| Ø Internal diameter | Filtration Area | Filtration velocity              | Recommended flow                 | Outlet Ø | Code filter |       | Valve manifold Manual, 5-valve code for 1 filter |
|---------------------|-----------------|----------------------------------|----------------------------------|----------|-------------|-------|--------------------------------------------------|
|                     |                 |                                  |                                  |          | 2.5 bar     | 4 bar |                                                  |
| mm                  | m <sup>2</sup>  | m <sup>3</sup> /h/m <sup>2</sup> | m <sup>3</sup> /h/m <sup>2</sup> | mm       |             |       |                                                  |
| 1050                | 0.87            | 50                               | 43                               | Ø75      | 00545       | 07134 | 00771 BB 10                                      |
| 1200                | 1.13            | 50                               | 56                               | Ø90      | 00546       | 07135 | 00776 BB 12                                      |

<sup>(1)</sup> The filter code does not include filter media or Valve manifold

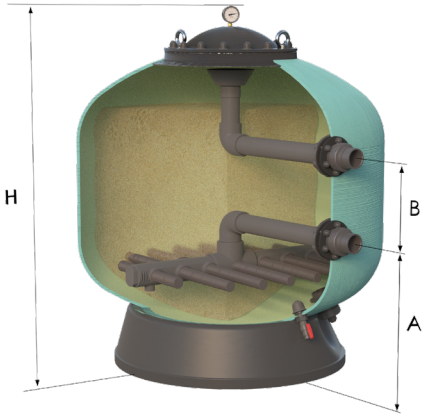
BOBBIN WOUND FILTERS



BERLIN FILTERS

TECHNICAL FEATURES

Filter Media Loads  
and Valve manifold  
options on pages  
161 and 163



STANDARD EQUIPMENT

Filter with laterals

|                   |             |
|-------------------|-------------|
| Top manhole Ø 400 | 1050 - 1200 |
| Air relief 3/4"   | 1050 - 1200 |
| Sand drain 2 ½ "  | 1050 - 1200 |
| Water drain 2 ½ " | 1050 - 1200 |

| Ø<br>(mm) | Ø Outlet<br>(mm) | A<br>(mm) | B<br>(mm) | H<br>(mm) | Net Weight<br>kg | Standard Volume<br>m³ |
|-----------|------------------|-----------|-----------|-----------|------------------|-----------------------|
| 1050      | Ø75              | 500       | 310       | 1300      | 100              | 1.92                  |
| 1200      | Ø90              | 550       | 310       | 1450      | 130              | 2.70                  |

## CODING

The filter code is composed of eight digits. The first five digits correspond to the filter code and the last three digits correspond to the model – this information is given in the tables below.

This codification system is used for the Praga, Oslo, Olot, Rodas, Vic, Europe, Vesubio and Delta filters.

|          |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|
| Position | 1 | 2 | 3 | 4 | 5 | - | 6 | 7 | 8 |
|----------|---|---|---|---|---|---|---|---|---|

Position 1 to 5: Five digit code of the standard product.

| Position 6<br>Specifies the nozzle plate and vinylester options |                                                           | Position 7<br>Specifies side opening options |                       | Position 8<br>Specifies sightglass options |                                   |
|-----------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|-----------------------|--------------------------------------------|-----------------------------------|
| 0                                                               | Filter without nozzle plate                               | 0                                            | Without nozzle plates | 0                                          | Without sightglasses              |
| 1                                                               | Filter with nozzle plate                                  | 1                                            | 1 Ø 225 mm manhole    | 1                                          | 1 sightglass for laminated filter |
| 2                                                               | Vinylester finish                                         | 2                                            | 1 Ø 400 mm manhole    | 2                                          | 1 Ø 135 mm sightglass             |
| 3                                                               | With plate and vinylester                                 | 3                                            | 2 Ø 225 mm manholes   | 3                                          | 2 Ø 135 mm sightglasses           |
| 4                                                               | 1" double effect priming valve kit                        | 4                                            | 2 Ø 400 mm manholes   | 4                                          | 2 Ø 225 mm manholes               |
| 5                                                               | 1" double effect priming valve kit + plate                | 5                                            | 1 Ø 500 mm manhole    |                                            |                                   |
| 6                                                               | 1" double effect priming valve kit + plate and vinylester |                                              |                       |                                            |                                   |
| 7                                                               | 2" double effect priming valve kit                        |                                              |                       |                                            |                                   |
| 8                                                               | 2" double effect priming valve kit + plate                |                                              |                       |                                            |                                   |
| 9                                                               | 2" double effect priming valve kit + plate and vinylester |                                              |                       |                                            |                                   |

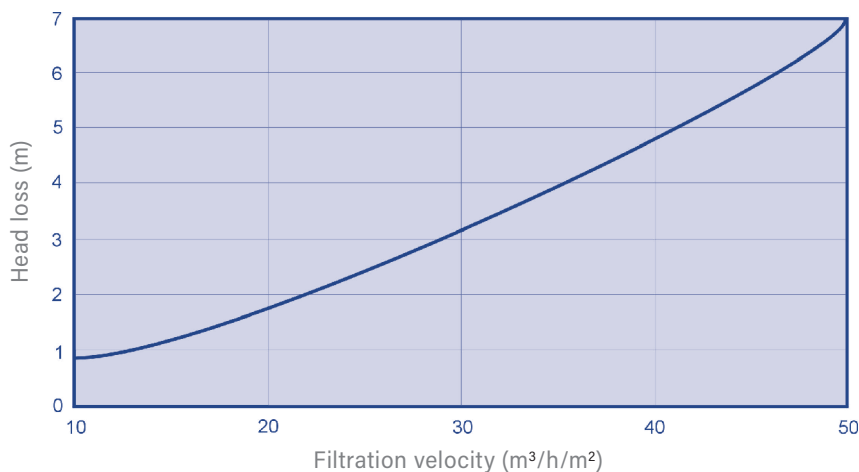
Notes: Rodas filters with nozzle plates are not available.  
 Ø 500 mm side opening for filters as of Ø 1050 mm.  
 Maximum vinylester option of 0.5 ppm.

Please enquire pricing for various options:

- Vinylester finish
- Ø 225 mm and Ø 400 mm manhole
- Sightglass
- Plate

## HEAD LOSS CURVE

Filters from Ø 1050 mm to Ø 3000 mm



## FILTER MEDIA

## VERTICAL FILTER MEDIA

Apparent Density (kg/m<sup>3</sup>)

|                    |      |
|--------------------|------|
| Anthracite 0.8-1.6 | 800  |
| Sand 0.4-0.8       | 1400 |
| Gravel 1-2         | 1500 |
| Grade 1 glass      | 1250 |
| Grade 2 glass      | 1250 |
| Grade 3 glass      | 1250 |



Anthracite



Gravel



Glass

|                            |              |                    | Ø D (mm) |     |     |      |      |      |
|----------------------------|--------------|--------------------|----------|-----|-----|------|------|------|
| Model                      | Media (m³)   |                    | 500      | 650 | 800 | 950  | 1000 | 1200 |
| ARTIC                      | single-layer | Sand 0.4-0.8       | 225      | 380 | 530 | 830  | 1015 | 1360 |
|                            |              | Gravel 1-2         | 50       | 100 | 165 | 260  | 320  | 410  |
|                            | glass media  | Grade 1 glass      | 150      | 275 | 375 | 600  | 750  | 1000 |
|                            |              | Grade 2 glass      | 50       | 75  | 125 | 200  | 250  | 325  |
|                            |              | Grade 3 glass      | 50       | 100 | 150 | 225  | 275  | 350  |
| ARTIC PLUS                 | single-layer | Sand 0.4-0.8       |          | 470 | 660 | 1015 | 1240 | 1665 |
|                            |              | Gravel 1-2         |          | 100 | 165 | 260  | 320  | 410  |
|                            | glass media  | Grade 1 glass      |          | 325 | 475 | 725  | 875  | 1175 |
|                            |              | Grade 2 glass      |          | 100 | 150 | 225  | 275  | 375  |
|                            |              | Grade 3 glass      |          | 125 | 150 | 250  | 300  | 400  |
| DELTA 1000                 | single-layer | Sand 0.4-0.8       | 245      | 400 | 640 |      | 990  | 1425 |
|                            |              | Gravel 1-2         | 60       | 85  | 156 |      | 300  | 350  |
|                            | glass media  | Grade 1 glass      | 175      | 275 | 450 |      | 725  | 1000 |
|                            |              | Grade 2 glass      | 50       | 75  | 150 |      | 225  | 325  |
|                            |              | Grade 3 glass      | 75       | 100 | 150 |      | 250  | 350  |
| DELTA 1200                 | single-layer | Sand 0.4-0.8       |          | 450 | 765 |      | 1325 | 1765 |
|                            |              | Gravel 1-2         |          | 85  | 156 |      | 300  | 350  |
|                            | glass media  | Grade 1 glass      |          | 325 | 500 |      | 850  | 1125 |
|                            |              | Grade 2 glass      |          | 100 | 175 |      | 275  | 375  |
|                            |              | Grade 3 glass      |          | 100 | 175 |      | 300  | 400  |
| DELTA 1000<br>NOZZLE PLATE | single-layer | Sand 0.4-0.8       |          | 400 | 640 |      | 990  | 1425 |
|                            |              | Gravel 1-2         |          | 45  | 80  |      | 120  | 175  |
|                            | glass media  | Grade 1 glass      |          | 275 | 450 |      | 725  | 1000 |
|                            |              | Grade 2 glass      |          | 75  | 100 |      | 125  | 225  |
|                            |              | Grade 3 glass      |          | 75  | 100 |      | 150  | 225  |
| DELTA 1200<br>NOZZLE PLATE | single-layer | Sand 0.4-0.8       |          | 450 | 765 |      | 1325 | 1765 |
|                            |              | Gravel 1-2         |          | 45  | 80  |      | 300  | 175  |
|                            | glass media  | Grade 1 glass      |          | 325 | 500 |      | 850  | 1125 |
|                            |              | Grade 2 glass      |          | 75  | 125 |      | 200  | 300  |
|                            |              | Grade 3 glass      |          | 75  | 125 |      | 225  | 350  |
| NORMA                      | single-layer | Sand 0.4-0.8       |          | 450 | 765 |      | 1325 | 1765 |
|                            |              | Gravel 1-2         |          | 45  | 80  |      | 300  | 175  |
|                            | glass media  | Grade 1 glass      |          | 325 | 500 |      | 850  | 1125 |
|                            |              | Grade 2 glass      |          | 75  | 125 |      | 200  | 300  |
|                            |              | Grade 3 glass      |          | 75  | 125 |      | 225  | 350  |
|                            | multi-layer  | Anthracite 0.8-1.6 |          | 120 | 200 |      | 315  | 450  |
|                            |              | Sand 0.4-0.8       |          | 160 | 270 |      | 420  | 610  |
| BEGUR<br>(NORMA DIN)       | single-layer | Sand 0.4-0.8       |          | 535 | 815 |      | 1270 | 1830 |
|                            |              | Gravel 1-2         |          | 50  | 80  |      | 120  | 175  |
|                            | glass media  | Grade 1 glass      |          | 350 | 550 |      | 850  | 1125 |
|                            |              | Grade 2 glass      |          | 75  | 125 |      | 200  | 300  |
|                            |              | Grade 3 glass      |          | 75  | 125 |      | 225  | 350  |
|                            | multi-layer  | Anthracite 0.8-1.6 |          | 160 | 240 |      | 375  | 540  |
|                            |              | Sand 0.4-0.8       |          | 270 | 410 |      | 635  | 915  |
|                            |              | Gravel 1-2         |          | 100 | 160 |      | 240  | 350  |

Recommended weights. It can vary depending on the density of the product.

## FILTER MEDIA

## VERTICAL FILTER MEDIA

Apparent Density (kg/m³)

|                    |      |
|--------------------|------|
| Anthracite 0.8-1.6 | 800  |
| Sand 0.4-0.8       | 1400 |
| Gravel 1-2         | 1500 |
| Grade 1 glass      | 1250 |
| Grade 2 glass      | 1250 |
| Grade 3 glass      | 1250 |



Anthracite



Gravel



Glass

|                                                       |              |                    | Ø D (mm) |      |      |      |      |      |      |      |      |      |      |       |
|-------------------------------------------------------|--------------|--------------------|----------|------|------|------|------|------|------|------|------|------|------|-------|
| Model                                                 | Media (m³)   |                    | 1050     | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2350 | 2500 | 2600 | 2800 | 3000  |
| BERLIN<br>1.2 m bed depth<br>collector arms           | single-layer | Sand 0.4-0.8       | 575      | 800  |      |      |      |      |      |      |      |      |      |       |
|                                                       |              | Gravel 1-2         | 300      | 325  |      |      |      |      |      |      |      |      |      |       |
|                                                       | glass media  | Grade 1 glass      | 500      | 700  |      |      |      |      |      |      |      |      |      |       |
|                                                       |              | Grade 2 glass      | 275      | 300  |      |      |      |      |      |      |      |      |      |       |
| VESUBIO<br>1 m bed depth<br>collector arms            | single-layer | Sand 0.4-0.8       | 1125     | 1350 | 1850 | 2723 | 3175 | 3650 |      |      |      |      |      |       |
|                                                       |              | Gravel 1-2         | 175      | 275  | 350  | 450  | 550  | 675  |      |      |      |      |      |       |
|                                                       | glass media  | Grade 1 glass      | 650      | 775  | 1075 | 1575 | 1850 | 2125 |      |      |      |      |      |       |
|                                                       |              | Grade 2 glass      | 325      | 400  | 550  | 800  | 925  | 1075 |      |      |      |      |      |       |
|                                                       |              | Grade 3 glass      | 150      | 250  | 300  | 400  | 475  | 600  |      |      |      |      |      |       |
| EUROPA, PRAGA, VIC<br>1 m bed depth<br>collector arms | single-layer | Sand 0.4-0.8       | 950      | 1375 | 1650 | 2150 | 2800 | 3800 | 4650 | 5275 | 6000 |      |      | 8600  |
|                                                       |              | Gravel 1-2         | 300      | 325  | 450  | 675  | 750  | 1050 | 1800 | 1900 | 2200 |      |      | 3300  |
|                                                       | glass media  | Grade 1 glass      | 550      | 800  | 975  | 1250 | 1625 | 2225 | 2725 | 2075 | 3500 |      |      | 5025  |
|                                                       |              | Grade 2 glass      | 275      | 400  | 475  | 625  | 825  | 1100 | 1350 | 1550 | 1750 |      |      | 2500  |
|                                                       |              | Grade 3 glass      | 275      | 300  | 400  | 600  | 650  | 925  | 1575 | 1675 | 1925 |      |      | 2900  |
| EUROPA, OSLO<br>1.2 m bed depth<br>collector arms     | single-layer | Sand 0.4-0.8       | 1300     | 1775 | 2300 | 3000 | 3800 | 4650 | 5625 | 6300 | 7075 |      |      | 10575 |
|                                                       |              | Gravel 1-2         | 300      | 350  | 500  | 775  | 850  | 1150 | 1400 | 1800 | 1975 |      |      | 3850  |
|                                                       | multi-layer  | Anthracite 0.8-1.6 | 450      | 575  | 775  | 1000 | 1275 | 1575 | 1900 | 2175 | 2450 |      |      | 3550  |
|                                                       |              | Sand 0.4-0.8       | 700      | 800  | 1025 | 1375 | 1750 | 2125 | 2550 | 2925 | 3350 |      |      | 4825  |
|                                                       | glass media  | Gravel 1-2         | 300      | 350  | 500  | 775  | 850  | 1150 | 1400 | 1800 | 1975 |      |      | 3850  |
|                                                       |              | Grade 1 glass      | 1700     | 2325 | 3025 | 3950 | 5000 | 6100 | 7375 | 8275 | 9275 |      |      | 13875 |
|                                                       |              | Grade 2 glass      | 375      | 525  | 675  | 875  | 1100 | 1350 | 1650 | 1850 | 2050 |      |      | 3100  |
|                                                       |              | Grade 3 glass      | 275      | 300  | 450  | 675  | 750  | 1000 | 1225 | 1575 | 1725 |      |      | 3375  |
| EUROPA, PRAGA, VIC<br>1 m bed depth<br>nozzle plate   | single-layer | Sand 0.4-0.8       | 950      | 1375 | 1650 | 2150 | 2800 | 3800 | 4650 | 5275 | 6000 |      |      | 8600  |
|                                                       |              | Gravel 1-2         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  |      |      | 1100  |
|                                                       | glass media  | Grade 1 glass      | 650      | 900  | 1100 | 1425 | 1875 | 2500 | 3075 | 3475 | 3950 |      |      | 5675  |
|                                                       |              | Grade 2 glass      | 325      | 450  | 550  | 725  | 925  | 1250 | 1525 | 1750 | 1975 |      |      | 2825  |
| EUROPA, OSLO, OLOT<br>1.2 m bed depth<br>nozzle plate | single-layer | Sand 0.4-0.8       | 1300     | 1775 | 2300 | 3000 | 3800 | 4650 | 5625 | 6300 | 7075 | 8175 | 9500 | 10575 |
|                                                       |              | Gravel 1-2         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  | 800  | 925  | 1100  |
|                                                       | multi-layer  | Anthracite 0.8-1.6 | 450      | 575  | 775  | 1000 | 1275 | 1575 | 1900 | 2175 | 2450 | 2550 | 2950 | 3550  |
|                                                       |              | Sand 0.4-0.8       | 700      | 800  | 1025 | 1375 | 1750 | 2125 | 2550 | 2925 | 3350 | 3700 | 4300 | 4825  |
|                                                       | glass media  | Gravel 1-2         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  | 800  | 925  | 1100  |
|                                                       |              | Grade 1 glass      | 850      | 1150 | 1475 | 1925 | 2450 | 3000 | 3625 | 4075 | 4575 |      |      | 6800  |
|                                                       |              | Grade 2 glass      | 425      | 575  | 750  | 975  | 1225 | 1500 | 1825 | 2050 | 2300 |      |      | 3400  |
| OLOT<br>1.5 m bed depth<br>nozzle plate               | multi-layer  | Anthracite 0.8-1.6 | 450      | 575  | 775  | 1000 | 1275 | 1575 | 1900 | 2175 | 2450 | 2550 | 2950 | 3550  |
|                                                       |              | Sand 0.4-0.8       | 725      | 950  | 1250 | 1650 | 2100 | 2550 | 3100 | 3525 | 4025 | 4450 | 5175 | 2775  |
|                                                       |              | Gravel 1-2         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  | 800  | 925  | 1100  |
|                                                       |              | Gravel 2-3         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  | 800  | 925  | 1100  |
|                                                       |              | Gravel 3-5         | 150      | 175  | 250  | 300  | 400  | 500  | 600  | 675  | 775  | 800  | 925  | 1100  |
| BLANES<br>(EUROPA DIN)                                | single-layer | Sand 0.4-0.8       |          |      | 2500 | 3250 | 4125 | 5100 |      |      |      |      |      |       |
|                                                       |              | Gravel 1-2         |          |      | 250  | 300  | 400  | 475  |      |      |      |      |      |       |
|                                                       | glass media  | Grade 1 glass      |          |      |      |      |      |      |      |      |      |      |      |       |
|                                                       |              | Grade 2 glass      |          |      |      |      |      |      |      |      |      |      |      |       |
|                                                       |              | Grade 3 glass      |          |      |      |      |      |      |      |      |      |      |      |       |
|                                                       | multi-layer  | Anthracite 0.8-1.6 |          |      | 600  | 775  | 975  | 1200 |      |      |      |      |      |       |
|                                                       |              | Sand 0.4-0.8       |          |      | 1250 | 1650 | 2100 | 2550 |      |      |      |      |      |       |
| Gravel 1-2                                            |              |                    |          | 475  | 625  | 800  | 975  |      |      |      |      |      |      |       |

Recommended weights. It can vary depending on the density of the product.

## FILTER MEDIA



## HORIZONTAL FILTER MEDIA

Apparent Density (kg/m<sup>3</sup>)

|                    |      |
|--------------------|------|
| Anthracite 0.8-1.6 | 800  |
| Sand 0.4-0.8       | 1400 |
| Gravel 1-2         | 1500 |
| Grade 1 glass      | 1250 |
| Grade 2 glass      | 1250 |
| Grade 3 glass      | 1250 |



Anthracite



Gravel



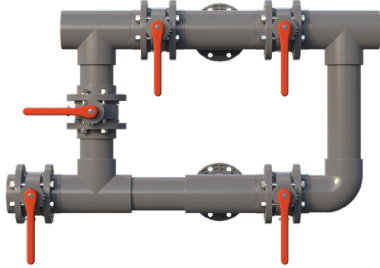
Glass

|       |              |               | Ø D (mm) |      |      |      |      |       |       |       |       |
|-------|--------------|---------------|----------|------|------|------|------|-------|-------|-------|-------|
| Model | Media (m³)   |               | 1900     | 2300 | 2500 | 2700 | 3000 | 3500  | 4000  | 4500  | 5000  |
| 1050  | single-layer | Sand 0.4-0.8  | 950      | 1250 | 1525 | 1800 | 2025 |       |       |       |       |
|       |              | Gravel 1-2    | 350      | 475  | 575  | 700  | 775  |       |       |       |       |
|       | glass media  | Grade 1 glass | 625      | 825  | 1000 | 1175 | 1325 |       |       |       |       |
|       |              | Grade 2 glass | 200      | 275  | 325  | 400  | 450  |       |       |       |       |
|       |              | Grade 3 glass | 300      | 425  | 500  | 625  | 675  |       |       |       |       |
| 1200  | single-layer | Sand 0.4-0.8  | 1100     | 1425 | 1750 | 2075 | 2325 |       |       |       |       |
|       |              | Gravel 1-2    | 425      | 550  | 700  | 825  | 925  |       |       |       |       |
|       | glass media  | Grade 1 glass | 725      | 925  | 1150 | 1350 | 1525 |       |       |       |       |
|       |              | Grade 2 glass | 250      | 300  | 375  | 450  | 500  |       |       |       |       |
|       |              | Grade 3 glass | 375      | 475  | 625  | 725  | 800  |       |       |       |       |
| 1400  | single-layer | Sand 0.4-0.8  | 2100     |      | 2825 |      | 3450 |       |       |       |       |
|       |              | Gravel 1-2    | 575      |      | 800  |      | 1000 |       |       |       |       |
|       | glass media  | Grade 1 glass | 1375     |      | 1850 |      | 2250 |       |       |       |       |
|       |              | Grade 2 glass | 450      |      | 625  |      | 750  |       |       |       |       |
|       |              | Grade 3 glass | 500      |      | 700  |      | 875  |       |       |       |       |
| 1600  | single-layer | Sand 0.4-0.8  | 2850     |      | 3875 |      | 4750 |       |       |       |       |
|       |              | Gravel 1-2    | 600      |      | 850  |      | 1050 |       |       |       |       |
|       | glass media  | Grade 1 glass | 1875     |      | 2550 |      | 3100 |       |       |       |       |
|       |              | Grade 2 glass | 625      |      | 850  |      | 1050 |       |       |       |       |
|       |              | Grade 3 glass | 700      |      | 975  |      | 1200 |       |       |       |       |
| 1800  | single-layer | Sand 0.4-0.8  |          |      | 4850 |      | 5925 | 7000  | 8075  |       |       |
|       |              | Gravel 1-2    |          |      | 975  |      | 1225 | 1475  | 1700  |       |       |
|       | glass media  | Grade 1 glass |          |      | 3175 |      | 3875 | 4600  | 5300  |       |       |
|       |              | Grade 2 glass |          |      | 1050 |      | 1300 | 1525  | 1750  |       |       |
|       |              | Grade 3 glass |          |      | 850  |      | 1075 | 1300  | 1500  |       |       |
| 2000  | single-layer | Sand 0.4-0.8  |          |      | 6575 |      | 8025 | 9475  | 10925 | 12375 | 13825 |
|       |              | Gravel 1-2    |          |      | 1050 |      | 1300 | 1550  | 1800  | 2075  | 2350  |
|       | glass media  | Grade 1 glass |          |      | 4325 |      | 5275 | 6225  | 7175  | 8125  | 9075  |
|       |              | Grade 2 glass |          |      | 1450 |      | 1750 | 2075  | 2400  | 2700  | 3024  |
|       |              | Grade 3 glass |          |      | 925  |      | 1150 | 1350  | 1575  | 1825  | 2050  |
| 2350  | single-layer | Sand 0.4-0.8  |          |      |      |      | 9300 | 11050 | 12800 | 14525 | 16250 |
|       |              | Gravel 1-2    |          |      |      |      | 2575 | 3125  | 3650  | 4200  | 4750  |
|       | glass media  | Grade 1 glass |          |      |      |      | 6100 | 7250  | 8400  | 9525  | 10675 |
|       |              | Grade 2 glass |          |      |      |      | 2025 | 2425  | 2800  | 3175  | 3550  |
|       |              | Grade 3 glass |          |      |      |      | 2250 | 2750  | 3200  | 3675  | 4150  |
| 2500  | single-layer | Sand 0.4-0.8  |          |      |      |      |      | 11675 | 13500 | 15350 | 17200 |
|       |              | Gravel 1-2    |          |      |      |      |      | 3175  | 3725  | 4300  | 4850  |
|       | glass media  | Grade 1 glass |          |      |      |      |      | 7650  | 8850  | 10075 | 11275 |
|       |              | Grade 2 glass |          |      |      |      |      | 2550  | 2950  | 3350  | 3750  |
|       |              | Grade 3 glass |          |      |      |      |      | 2775  | 3250  | 3775  | 2450  |

Recommended weights. It can vary depending on the density of the product.

# VALVES MANIFOLD

## Manual Manifold. 5 Butterfly Valves

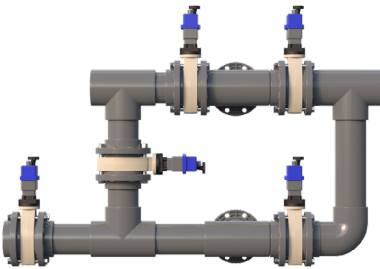


### Split-up

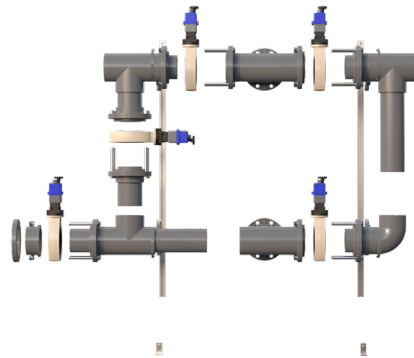


- Butterfly valve.
- Regulable opening every 15° with position holding.
- One piece body in PVC-U.
- Fixed in the set with galvanized steel screws.
- Standard flanges DIN 2501.

## Electric Manifold. 5 Butterfly Valves

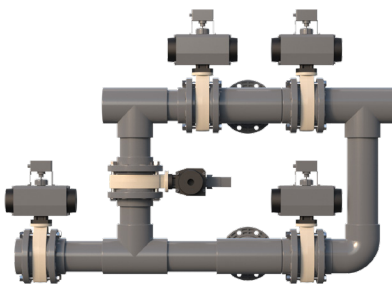


### Split-up

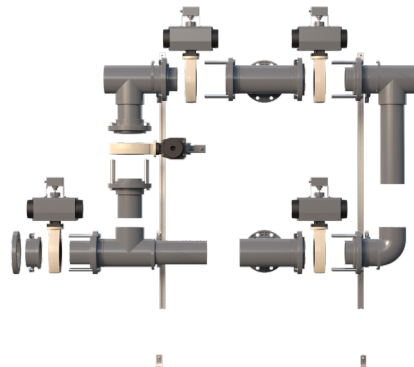


- Butterfly valve with electric actuator J+J 80-240V.
- Electronic torque control, with limitation of maximum torque.
- Anti-condensation heating resistor.
- Automatic / manual lever, with manual override.
- Open and closed volt free contacts.
- Indicator LED operating / error.
- Enclosure in anticorrosive polyamide.
- Standard flanges DIN 2501.
- Fixed in the set with galvanized steel screws.

## Pneumatic Manifold. 5 Butterfly Valves



### Split-up



- Butterfly valve with pneumatic actuator CH-air with limit switch box.
- Rack and pinion drive.
- Valve position visualization.
- NAMUR connection that allows the assembly of the solenoid valve.
- Final position regulation in the actuator (+/- 5°).
- Fixed in the set with galvanized steel screws.
- Standard flanges DIN 2501.

## Installation details

### Tightening torques (Installation)

| D (mm)  | 63        | 75        | 90        | 110       | 125 - 140 | 160       | 200 - 225 | 250 - 280 | 315       |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DN (mm) | 50        | 65        | 80        | 100       | 125       | 150       | 200       | 250       | 300       |
| Screws  | 4xM16x120 | 4xM16x120 | 4xM16x150 | 4xM16x160 | 4xM16x170 | 4xM20x200 | 4xM20x210 | 4xM20x270 | 4xM20x310 |
| (N.m)   | 25        | 25        | 25        | 30        | 35        | 40        | 50        | 80        | 80        |

## VALVES MANIFOLD

## VALVES MANIFOLD CODIFICATION

## Ø OUTLET + MODEL + Ø FILTER

## CODING EXAMPLES FOR 1 FILTER

-5 valves, manual. Olot filter Ø1200-125 00785 OL 12

## CODING EXAMPLES FOR 2 FILTERS

-5 valves, manual 2 filters Prague Ø1600-125 09180 2BS 516

In this case, it's necessary to search the equivalent outlet for two filters with Ø125 according to the filtration speed. For this example, the speed is 50 (indicated by a 5 at the beginning of the last two digits) and the outlet is Ø200. The number of filters is indicated in front of the filter model, in this case, 2.

## Model Filter

| Model   | Code |
|---------|------|
| Berlin  | BB   |
| Praga   | BS   |
| Vic     | VI   |
| Oslo    | BA   |
| Olot    | OL   |
| Europe  | EU   |
| Vesubio | VO   |
| Rodas   | HZ   |

## Ø Filter

| Model | Code |
|-------|------|
| 1050  | 10   |
| 1200  | 12   |
| 1400  | 14   |
| 1600  | 16   |
| 1800  | 18   |
| 2000  | 20   |
| 2350  | 23   |
| 2500  | 25   |
| 2600  | 26   |
| 2800  | 28   |
| 3000  | 30   |

## Ø Outlet

## Manual Manifolds - 4 Valves

|     |       |                               |
|-----|-------|-------------------------------|
| 63  | 00747 | Manual Manifold 4 Val. D. 63  |
| 75  | 00749 | Manual Manifold 4 Val. D. 75  |
| 90  | 00754 | Manual Manifold 4 Val. D. 90  |
| 110 | 00758 | Manual Manifold 4 Val. D. 110 |
| 125 | 00763 | Manual Manifold 4 Val. D. 125 |
| 140 | 00767 | Manual Manifold 4 Val. D. 140 |
| 160 | 09205 | Manual Manifold 4 Val. D. 160 |
| 200 | 09160 | Manual Manifold 4 Val. D. 200 |
| 225 | 09164 | Manual Manifold 4 Val. D. 225 |
| 250 | 26244 | Manual Manifold 4 Val. D. 250 |

## Electric Manifolds - 4 Valves

|     |        |                                 |
|-----|--------|---------------------------------|
| 63  | 00747E | Electric Manifold 4 Val. D. 63  |
| 75  | 00749E | Electric Manifold 4 Val. D. 75  |
| 90  | 00754E | Electric Manifold 4 Val. D. 90  |
| 110 | 00758E | Electric Manifold 4 Val. D. 110 |
| 125 | 00763E | Electric Manifold 4 Val. D. 125 |
| 140 | 00767E | Electric Manifold 4 Val. D. 140 |
| 160 | 09205E | Electric Manifold 4 Val. D. 160 |
| 200 | 09160E | Electric Manifold 4 Val. D. 200 |
| 225 | 09164E | Electric Manifold 4 Val. D. 225 |
| 250 | 26244E | Electric Manifold 4 Val. D. 250 |

## Pneumatic manifolds - 4 Valves

|     |        |                                  |
|-----|--------|----------------------------------|
| 63  | 00747N | Pneumatic Manifold 4 Val. D. 63  |
| 75  | 00749N | Pneumatic Manifold 4 Val. D. 75  |
| 90  | 00754N | Pneumatic Manifold 4 Val. D. 90  |
| 110 | 00758N | Pneumatic Manifold 4 Val. D. 110 |
| 125 | 00763N | Pneumatic Manifold 4 Val. D. 125 |
| 140 | 00767N | Pneumatic Manifold 4 Val. D. 140 |
| 160 | 09205N | Pneumatic Manifold 4 Val. D. 160 |
| 200 | 09160N | Pneumatic Manifold 4 Val. D. 200 |
| 225 | 09164N | Pneumatic Manifold 4 Val. D. 225 |
| 250 | 26244N | Pneumatic Manifold 4 Val. D. 250 |

## Manual Manifolds - 5 Valves

|     |       |                               |
|-----|-------|-------------------------------|
| 63  | 00769 | Manual Manifold 5 Val. D. 63  |
| 75  | 00771 | Manual Manifold 5 Val. D. 75  |
| 90  | 00776 | Manual Manifold 5 Val. D. 90  |
| 110 | 00780 | Manual Manifold 5 Val. D. 110 |
| 125 | 00785 | Manual Manifold 5 Val. D. 125 |
| 140 | 00789 | Manual Manifold 5 Val. D. 140 |
| 160 | 09177 | Manual Manifold 5 Val. D. 160 |
| 200 | 09180 | Manual Manifold 5 Val. D. 200 |
| 225 | 09185 | Manual Manifold 5 Val. D. 225 |
| 250 | 19133 | Manual Manifold 5 Val. D. 250 |

## Electric Manifolds - 5 Valves

|     |        |                                 |
|-----|--------|---------------------------------|
| 63  | 00769E | Electric Manifold 5 Val. D. 63  |
| 75  | 00771E | Electric Manifold 5 Val. D. 75  |
| 90  | 00776E | Electric Manifold 5 Val. D. 90  |
| 110 | 00780E | Electric Manifold 5 Val. D. 110 |
| 125 | 00785E | Electric Manifold 5 Val. D. 125 |
| 140 | 00789E | Electric Manifold 5 Val. D. 140 |
| 160 | 09177E | Electric Manifold 5 Val. D. 160 |
| 200 | 09180E | Electric Manifold 5 Val. D. 200 |
| 225 | 09185E | Electric Manifold 5 Val. D. 225 |
| 250 | 19133E | Electric Manifold 5 Val. D. 250 |

## Pneumatic manifolds - 5 Valves

|     |        |                                  |
|-----|--------|----------------------------------|
| 63  | 00769N | Pneumatic Manifold 5 Val. D. 63  |
| 75  | 00771N | Pneumatic Manifold 5 Val. D. 75  |
| 90  | 00776N | Pneumatic Manifold 5 Val. D. 90  |
| 110 | 00780N | Pneumatic Manifold 5 Val. D. 110 |
| 125 | 00785N | Pneumatic Manifold 5 Val. D. 125 |
| 140 | 00789N | Pneumatic Manifold 5 Val. D. 140 |
| 160 | 09177N | Pneumatic Manifold 5 Val. D. 160 |
| 200 | 09180N | Pneumatic Manifold 5 Val. D. 200 |
| 225 | 09185N | Pneumatic Manifold 5 Val. D. 225 |
| 250 | 19133N | Pneumatic Manifold 5 Val. D. 250 |

## REGENERATIVE MEDIA FILTERS

ASTRALPOOL

NEW  
2023

## FMR Regenerative media filters

- The filter is the basic unit that we must select based on the desired flow rate. Speed is an important factor, a minimum of 1.3 m<sup>3</sup>/h/m<sup>2</sup> and a maximum of 4.8 m<sup>3</sup>/h/m<sup>2</sup> is established.
- The bypass valve battery is used to carry out backwashing and maintain the filter in maintenance with water circulation in the system. It is possible to choose between manual or automatic bypass, the latter using pneumatic valves.
- The cabinet is the necessary mechanism to cause the filter regenerations and in the case of the monitored system for the management of probes, system pumps, peripherals and communications.
- The components, such as flow, pressure, temperature, conductivity sensors, are necessary to connect them to the cabinet and to monitor the values of the pool.

The regenerative media (perlite) filters are designed for efficient water purification in pools for collective use. The water filtration system uses perlite as a regenerating filtration media, capable of filtering water down to 1 micron and with low water, energy and chemical requirements compared to traditional flint and glass filters.

## FMR filters main components:

- Cylinder and internal candles made of AISI-316 STAINLESS steel.
- Vibrator and compressor for regeneration.
- Perlite filtration media.
- Pressure gauge panel for pressure control.
- Connection flanges to the installation.

## As an option:

- Manual valve manifold
- Automatic valve manifold
- Basic control cabinet (BASIC)
- Basic control cabinet with automatic bypass (BASIC AUT)

|                                              | Code         | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------------------|--------------|---------------|-----------------------|-----------------------------------|
| HI500 - D.90mm - 10m <sup>2</sup> - 5.7KG    | WPP-HI-0500  | -             | -                     | -                                 |
| HI650 - D.110mm - 17m <sup>2</sup> - 9.7KG   | WPP-HI-0650  | -             | -                     | -                                 |
| HI850 - D.125mm - 32m <sup>2</sup> - 18KG    | WPP-HI-0850  | -             | -                     | -                                 |
| HI1050 - D.160mm - 47m <sup>2</sup> - 27KG   | WPP-HI-1050  | -             | -                     | -                                 |
| HI1050L - D.200mm - 61m <sup>2</sup> - 35KG  | WPP-HI-1050L | -             | -                     | -                                 |
| HI1350 - D.200mm - 80m <sup>2</sup> - 46KG   | WPP-HI-1350  | -             | -                     | -                                 |
| HI1600 - D.250mm - 117m <sup>2</sup> - 67KG  | WPP-HI-1600  | -             | -                     | -                                 |
| HI1600L - D.315mm - 150m <sup>2</sup> - 86KG | WPP-HI-1600L | -             | -                     | -                                 |

## BYPASS VALVES MANIFOLD

ASTRALPOOL

Filter bypass can be manual or automatic, this last with pneumatic valves. Therefore, an air compressor must be available.

## Bypass valves manifold includes:

- Piping, flanges, screws and gaskets.
- Filter inlet check valve.
- Automatic (with pneumatic drives) or manual valves depending on version.

|                                         | Code            | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|-----------------------------------------|-----------------|---------------|-----------------------|-----------------------------------|
| <b>Bypass Manual</b>                    |                 |               |                       |                                   |
| Manual bypass set DN90, FMR PI-500      | WPP-KITBYP-0090 | -             | -                     | -                                 |
| Manual bypass set DN110, FMR PI-650     | WPP-KITBYP-0110 | -             | -                     | -                                 |
| Manual bypass set DN125, FMR PI-850     | WPP-KITBYP-0125 | -             | -                     | -                                 |
| Manual bypass set DN160, FMR HI-1050    | WPP-KITBYP-3160 | -             | -                     | -                                 |
| Manual bypass set DN200, FMR HI-1350    | WPP-KITBYP-3200 | -             | -                     | -                                 |
| Manual bypass set DN250, FMR HI-1600    | WPP-KITBYP-3250 | -             | -                     | -                                 |
| Manual bypass set DN315, FMR HI-1600L   | WPP-KITBYP-3315 | -             | -                     | -                                 |
| <b>Bypass automatic pneumatic</b>       |                 |               |                       |                                   |
| Automatic bypass set DN90, FMR PI-500   | WPP-KITBYP-1090 | -             | -                     | -                                 |
| Automatic bypass set DN110, FMR PI-650  | WPP-KITBYP-1110 | -             | -                     | -                                 |
| Automatic bypass set DN125, FMR PI-850  | WPP-KITBYP-1125 | -             | -                     | -                                 |
| Automatic bypass set DN160, FMR HI-1050 | WPP-KITBYP-4160 | -             | -                     | -                                 |
| Automatic bypass set DN200, FMR HI-1350 | WPP-KITBYP-4200 | -             | -                     | -                                 |
| Automatic bypass set DN250, FMR HI-1600 | WPP-KITBYP-4250 | -             | -                     | -                                 |
| Automatic bypass set DN315, FMR HI-1600 | WPP-KITBYP-4315 | -             | -                     | -                                 |

## REGENERATIVE MEDIA FILTERS

ASTRALPOOL

NEW  
2023

## BASIC FMR CONTROL CABINET

The regenerative media filter control cabinet consists in a basic control panel and automation to do the filter regeneration and management in a fully automatic way. The filter renewal will be every 4 hours, with a programmable filtration system shutdown and a regeneration of the filtration media by controlling the filter vibrating system. Only with the filter regenerating control box the system will be allowed to do the regeneration in a fully automatic way.

**Control box includes:**

- Basic control box.
- Automation for regeneration control and filter management.

|                                  | Code          | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------------|---------------|---------------|-----------------------|-----------------------------------|
| Basic cabinet                    | WPP-CTRL-0100 | -             | -                     | -                                 |
| Basic cabinet + Automatic bypass | WPP-CTRL-0101 | -             | -                     | -                                 |

## REGENERATIVE MEDIA PERLITE

ASTRALPOOL

|                            | Code        | Standard Pack | Standard weight in kg | Standard volume in m <sup>3</sup> |
|----------------------------|-------------|---------------|-----------------------|-----------------------------------|
| Regenerative media Perlite | MF-0013-010 | -             | -                     | -                                 |