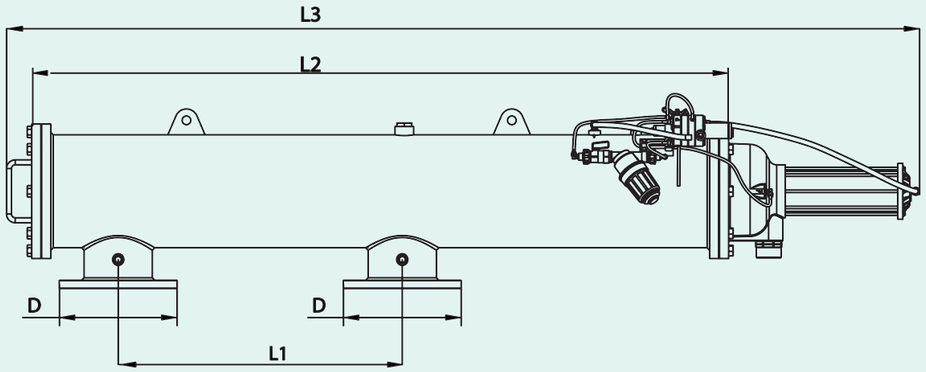
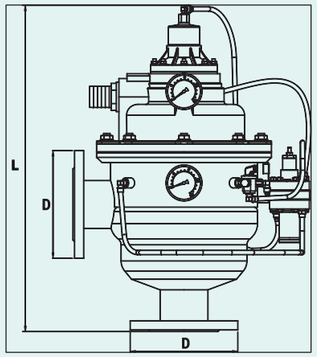


HORIZONTAL FILTER DIMENSIONS

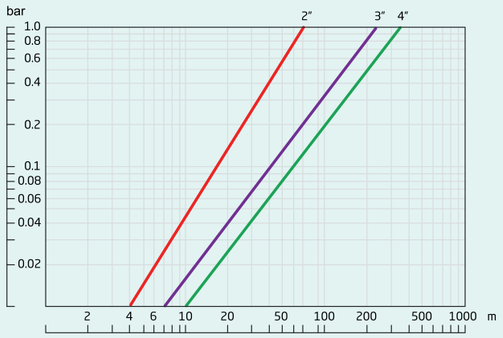
D	L1	L2	L3
inches	mm	mm	mm
4"	900	1900	2410
5"	900	1900	2410
6"	900	1900	2410
8"	900	2080	2600
10"	900	2080	2600



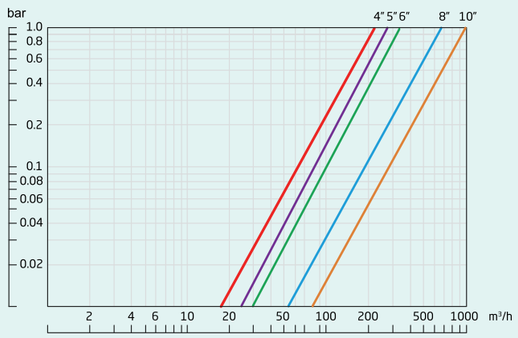
VERTICAL FILTER DIMENSIONS

D	L
inches	mm
2"	630
3"	630
3"	760
4"	760
4"	875

PRESSURE LOSS VERTICAL FILTER



PRESSURE LOSS HORIZONTAL FILTER



PLASTIC-PUGLIA
Irrigation Systems since 1967

value for water

AquaScreen

AUTOMATIC SCREEN FILTER



AQUASCREEN VE WITH ADI-P CONTROLLER



AQUASCREEN HE
WITH ADI-P CONTROLLER

AquaScreen automatic screen filters are self-cleaning filtration systems designed to ensure continuous filtration without interrupting water flow during the cleaning process. Available in both vertical and horizontal configurations, **AquaScreen** filters can be operated **hydraulically or electrically**. In the hydraulic version, backflushing is controlled by pilot valves mounted directly on the filter body. The internal filter element features a two-stage filtration system, consisting of a coarse screen for pre-filtration and a fine screen with a filtration rating of **130 µm**, designed to retain sand, silt and suspended solid particles. Different filtration mesh sizes are available. When the differential pressure between the inlet and outlet reaches approximately **0,6÷0,7 bar**, the pilot valves detect this condition and initiate the backflushing cycle. The piston opens the drain valve in approximately 10 seconds, cleaning the screen without interrupting irrigation system operation. In the electrically operated version, the controller automatically initiates a backflushing cycle every 2 hours (adjustable interval). **If the differential pressure sensor detects a pressure differential exceeding the preset threshold, a backflushing cycle is automatically initiated.** The filter assemblies are removable for inspection and maintenance.

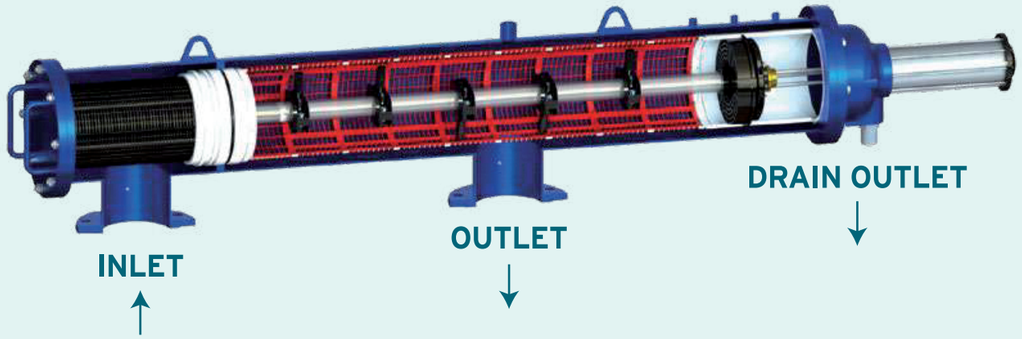
Available sizes: 2"-10" **Available connections**: Threaded, flanged and grooved
Standard filtration rating: 130 microns (120 mesh) **Operating pressure**: 2.5÷8 bar



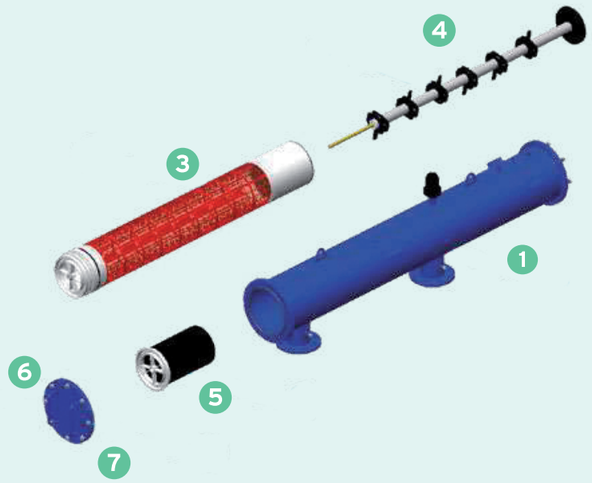


AQUASCREEN HH
WITH PILOT VALVE

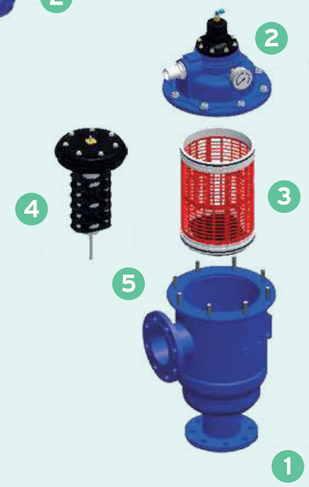
AQUASCREEN VH WITH PILOT VALVE



Aquascreen provides automatic self-cleaning filtration without requiring an external power supply, with an optional remote electrical activation system. Available filtration capacities range from **25 to 400 m³/h**, with a standard filtration rating of **130 micron (120 mesh)** and inlet/outlet connection sizes from **da 2" to 10"**.



1. **Filter Body**
   S235JR structural steel with polyester-epoxy coating
2. **Cover and Piston Assembly**
   GGG40 ductile cast iron and stainless steel
3. **Screen Filter Assembly**
   AISI 316 stainless steel + PA6 + POM + PVDF
4. **Drain Assembly and Suction Nozzles**
   Stainless steel + PA6
5. **Coarse Mesh Pre-Filter**
   PA6
6. **End Cover**
   S235JR structural steel with polyester-epoxy coating
7. **Bolts and Nuts**
   Stainless steel



1. **Filter Body**
   S235JR structural steel with polyester-epoxy coating
2. **Cover and Piston Assembly**
   GGG40 ductile cast iron and stainless steel
3. **Screen Filter Assembly**
   AISI 316 stainless steel + PA6 + POM + PVDF
4. **Drain Assembly and Suction Nozzles**
   Stainless steel + PA6
5. **Bolts and Nuts**
   Stainless steel

VERTICAL FILTER SPECIFICATIONS (WITH ADI-P CONTROLLER OR PILOT VALVE)

Maximum flow rate	25 m^3/h	35 m^3/h	50 m^3/h	70 m^3/h	100 m^3/h
Inlet/outlet connection size	2"	3"	3"	4"	4"
Standard filtration rating	130 microns	130 microns	130 microns	130 microns	130 microns
Minimum operating pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Maximum operating pressure	8 bar	8 bar	8 bar	8 bar	8 bar
Maximum operating temperature	60° C	60° C	60° C	60° C	60° C
Minimum flow rate for backflushing (at 2.5 bar)	15 m^3/h	15 m^3/h	20 m^3/h	22 m^3/h	30 m^3/h
Backflushing cycle duration	8-12 sec.	8-12 sec.	8-12 sec.	8-12 sec.	8-12 sec.
Filtration surface area	750 cm^2	750 cm^2	1500 cm^2	2250 cm^2	6800 cm^2

HORIZONTAL FILTER SPECIFICATIONS (WITH ADI-P CONTROLLER OR PILOT VALVE)

Maximum flow rate	100 m^3/h	120 m^3/h	160 m^3/h	200 m^3/h	400 m^3/h
Inlet/outlet connection size	4"	5"	6"	8"	10"
Standard filtration rating	130 microns	130 microns	130 microns	130 microns	130 microns
Minimum operating pressure	2,5 bar	2,5 bar	2,5 bar	2,5 bar	2,5 bar
Maximum operating pressure	8 bar	8 bar	8 bar	8 bar	8 bar
Maximum operating temperature	60° C	60° C	60° C	60° C	60° C
Minimum flow rate for backflushing (at 2.5 bar)	30 m^3/h	30 m^3/h	30 m^3/h	30 m^3/h	30 m^3/h
Backflushing cycle duration	22-30 sec.	22-30 sec.	22-30 sec.	22-30 sec.	22-30 sec.
Filtration surface area	6800 cm^2	6800 cm^2	6800 cm^2	6800 cm^2	6800 cm^2



BACKFLUSHING CONTROL UNIT

SOLENOID VALVE



PILOT VALVE