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2026

PRODUCTS CATALOGUE

aytok
WATER FILTRATION SYSTEMS

BEYOND

Filtration

BEYOND LIMITS

AYTOK FILTER

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About Us

ALWAYS GETTING BETTER...

Established in 1997, Aytok is one of Turkey's leading manufacturers of water filtration systems used in industrial and agricultural applications. Its products are currently used in over 90 countries across six continents, delivering quality, reliability, and efficiency wherever water flows. From our cutting-edge 30,000 m² facility, we deliver a wide array of products—plastic, automatic and media filters, valves, and sophisticated irrigation systems. Our rooftop solar installation generates 2.5 million kWh annually, powering our operations and underscoring our sustainability pledge. We continually bolster our capabilities with robotic welding, advanced automation and smart-control investments—and we'll soon add full IoT connectivity to complete our digital transformation. Aytok is not merely a supplier, but a solution partner that develops tailored engineering systems for each project. Its R&D department analyzes field-specific requirements across various sectors and transforms them into innovative, application-oriented solutions. Products such as the Flushcore® smart controller and Hydrofilt® automatic self-cleaning filters — designed for seamless integration and reliable performance — exemplify this commitment to innovation. Our commitment to quality is ensured through rigorous and comprehensive control processes implemented at every stage — from procurement to final inspection — demonstrating our reliability with a customer satisfaction rate exceeding 90%. It serves a wide range of clients, from industrial facilities and government institutions to farmers and engineering firms. Today, Aytok holds a leading position in Turkey and continues to grow globally with a vision rooted in sustainability and innovation. Beyond Filtration, Beyond Limits.

BEYOND Filtration BEYOND LIMITS

AYTOKFILTRE.COM

Our Journey

ALWAYS GETTING BETTER...

FILTERCORE FITTECH FLUSHCORE minithings HYDROFILT HURRICANEFILT PIVVALVE

1997

Began operations with plastic drip irrigation parts and metal filtration systems.

2000

Turkey's first electrostatic painting application for filters.

2001

First export shipment.

2004

The first company in Turkey to produce plastic filters.

2007

Established a new 10,000 m² facility and achieved another milestone as Turkey's first disc filter manufacturer.

2010

Development of innovative automatic self-cleaning filters; expanded exports to over 40 countries.

2016

Scaled up to a state-of-the-art 30,000 m² facility in response to surging market demand.

2020

Adopted solar energy for sustainable in-house power generation.

2022

Invested in a state-of-the-art robotic welding machine for enhanced efficiency and innovation.

2023

Acquired PivValve to process all inputs in-house, advancing vertical integration.

2024

Expanded export operations to over 90 countries.

2025

Launched Flushcore, an advanced filtration controller developed and manufactured in-house, offering a cutting-edge and cost-effective solution for superior water management.

PRE-FILTRATION

Guidance: Protect your main filter by removing heavy, coarse contaminants from the raw water source. This extends the life and enhances the performance of your entire system.

FOR HEAVY, COARSE DEBRIS (Algae, Leaves, Floating Objects)

Product Group: Self-Cleaning Strainers
× Mounted on the suction line of the pump.
× Captures large objects from open water sources like rivers, lakes, and pools.
× Protects the pump and main filter system from physical damage.

FOR HEAVY PARTICLES (Sand, Silt, Gravel)

Product Group: Plastic & Metal Hydrocyclones
× Uses centrifugal force to separate heavy, abrasive particles like sand from water.
× Features no moving parts and no screen to clean for maintenance-free operation.
× Protects your main filter from wear and abrasion, extending its service life.

FOR ORGANIC MATTER & HIGH DIRT LOADS

Product Group: Plastic & Metal Media (Gravel) Filters
× Provides in-depth filtration for the most challenging water sources.
× Excels at removing high concentrations of algae, clay, and organic matter.
× The professional choice for high-flow agricultural and industrial applications.

YOUR × FIRST LINE OF DEFENCE

PRECISION FILTRATION

Fully Automatic (Self-Cleaning) Filtration

Best for: Autonomous Performance & Critical Operations
× The ultimate "set-and-forget" solution for total reliability and peace of mind.
× Self-cleans automatically based on time or pressure differential.

Ideal for: Industrial processes, large-scale agriculture, and any application where a constant, clean water supply is non-negotiable.

MODELS:

Disc: Plastic Filters (PSC, DDSC)
Screen: Hydrofilt Automatic Screen Filters (Metals: VEF, EF, VBE, HBE, VDF, HDF, VRF, RF, EVF, VHF & **Plastics:** P-HF, PD-HF), Plastic Hurricane Filters (TM, HP, HD)

Semi-Automatic Filtration

Best for: Effortless Cleaning & Uninterrupted Flow
× The smart upgrade for enhanced efficiency and reduced labor.
× Cleaned with a simple handle turn—no system shutdown required.

Ideal for: Maximizing uptime and minimizing manual maintenance efforts.

MODELS:

Screen: Plastic Filters (PV, DV) & Plastic Hurricane Filters (TM, HP, HD) & Metal Filters (MF)

Manual Filtration

Best for: Basic Control & Intermittent Use
× An economical and robust solution for foundational filtration needs.
× Requires system shutdown for manual cleaning of the filter element.

Ideal for: Low-flow systems, small-scale agriculture, and landscape irrigation.

MODELS:

Screen: Plastic Filters (MPE, PE, DE) & Metal Filters (YE, LE)
Disc: Plastic Filters (MPD, PD, DD) & Metal Filters (YD, LD)

UNLOCKING SYSTEM × PERFORMANCE

DEMAG
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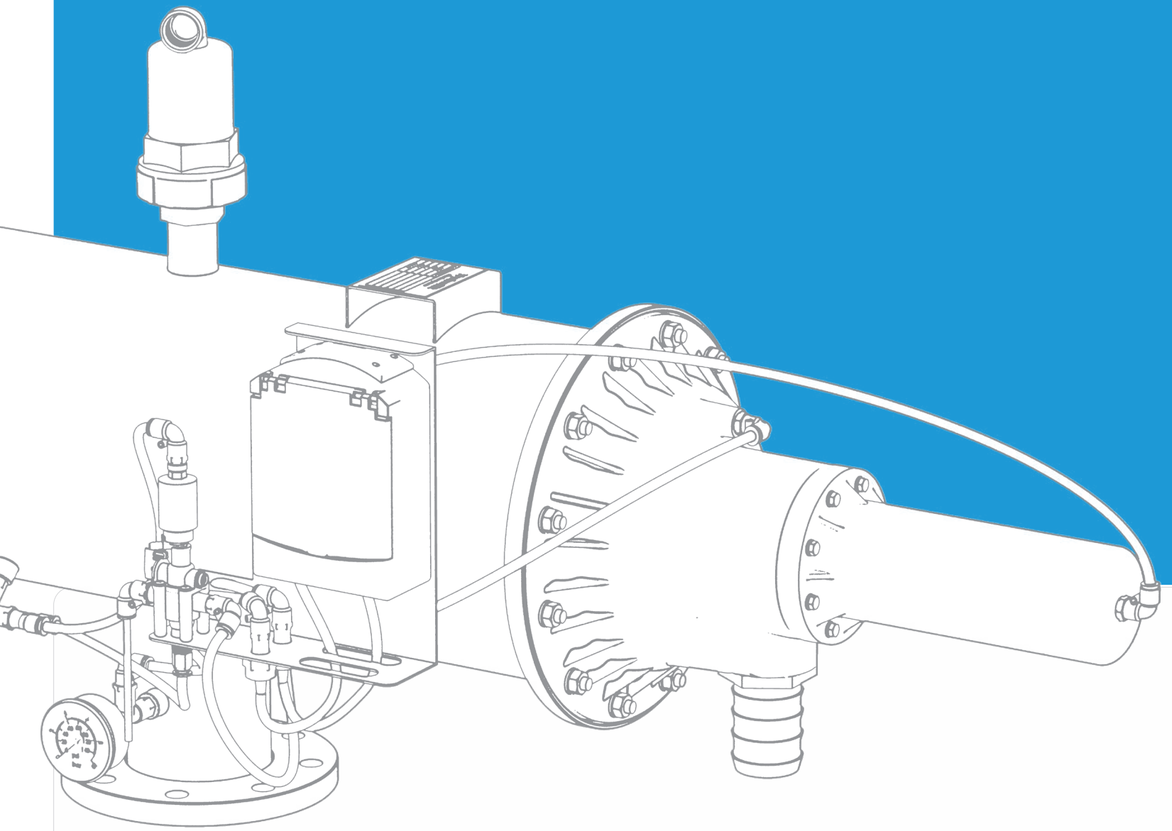
BEYOND LIMITS

+ PRODUCTS GROUP



HYDROFILT AUTOMATIC **SCREEN FILTERS**

BEYOND
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× LIMITS

Vertical Self-Cleaning **Electronic Filter**

VEF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Powerful Filtration, Smarter Design.

The VEF series provides robust, non-stop performance with its fully automatic self-cleaning technology. Engineered with a vertical configuration, it offers a high-performance solution without a large footprint. Experience the benefits of a system built to save space, time, and resources.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

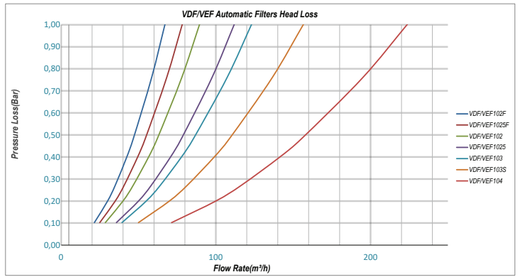
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

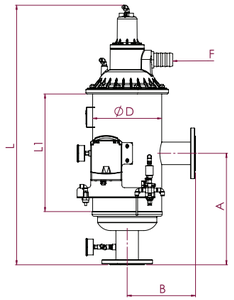
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
VEF/CVEF102F	2	50	310	270	205	760	10	2	3,3	53	30	132	658	2	1	22
VEF/CVEF1025F	2 1/2	65	310	270	205	760	10	2	3,3	53	40	176	658	2	1	23
VEF/CVEF102	2	50	390	270	365	920	10	2	3,3	53	40	176	1317	2	2	37
VEF/CVEF1025	2 1/2	65	390	270	365	920	10	2	3,3	53	50	220	1317	2	2	38
VEF/CVEF103	3	80	390	270	365	920	10	2	3,3	53	55	242	1317	2	2	39
VEF/CVEF103S	3	80	440	270	465	1020	10	2	4,1	66	70	308	1975	3	3	42
VEF/CVEF104	4	100	440	270	465	1020	10	2	4,1	66	100	440	1975	3	3	44





Vertical Self-Cleaning **Electronic Filter**

EVF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Uninterrupted Filtration, Intelligently Delivered.

The EVF series guarantees a seamless supply of filtered water, even during its automatic, energy-free backwash cycle. Its advanced electronic controller ensures precision cleaning while the vertical design saves valuable floor space, making it the smart choice for maximum uptime.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

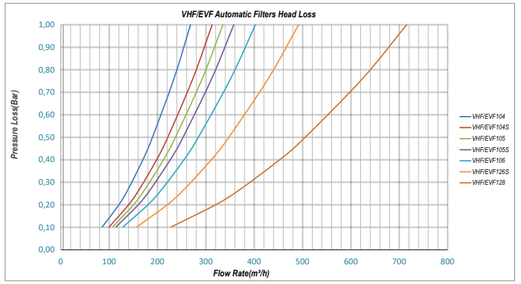
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

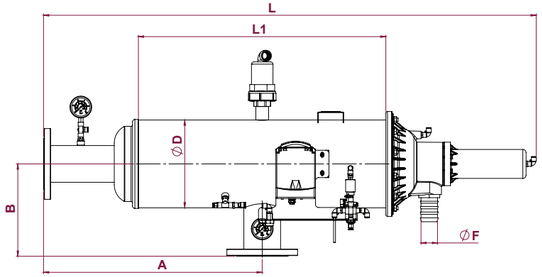
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
EVF/CEVF104	4	100	680	287	770	1532	10	2	3,3	53	120	528	2634	2	4	61
EVF/CEVF104S	4	100	780	287	970	1725	10	2	4,1	66	140	616	3951	3	6	67
EVF/CEVF105	5	125	780	287	970	1725	10	2	4,1	66	150	660	3951	3	6	69
EVF/CEVF105S	5	125	880	287	1170	1925	10	2	5	79	160	704	5268	4	8	74
EVF/CEVF106	6	150	880	287	1170	1925	10	2	5	79	180	792	5268	4	8	81
EVF/CEVF126S	6	150	1085	312	1587	2335	12	2	6,6	106	220	968	7902	6	12	122
EVF/CEVF128	8	200	1085	312	1587	2335	12	2	6,6	106	320	1408	7902	6	12	125

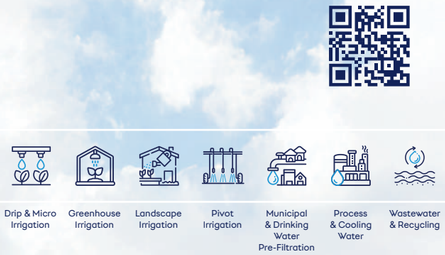




Horizontal Self-Cleaning **Electronic Filter**

EF

HYDROFILT AUTOMATIC **SCREEN FILTERS**



The Modern Standard in Automated Filtration.

Step up from manual systems to the effortless efficiency of the EF series. This filter delivers powerful, non-stop performance with a fully automatic self-cleaning cycle that saves water, labor, and time. Experience the peace of mind that comes with intelligent, uninterrupted operation.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

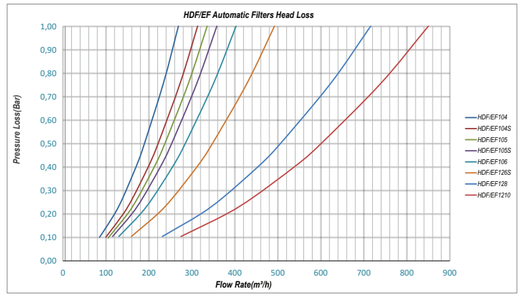
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

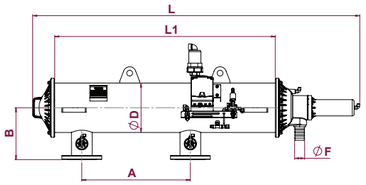
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
EF/CEF104	4	100	500	287	1020	1600	10	2	3,3	53	120	528	2634	2	4	71
EF/CEF104S	4	100	600	287	1220	1800	10	2	4,1	66	140	616	3951	3	6	81
EF/CEF105	5	125	600	287	1220	1800	10	2	4,1	66	150	660	3951	3	6	83
EF/CEF105S	5	125	900	287	1530	2110	10	2	5	79	160	704	5268	4	8	89
EF/CEF106	6	150	900	287	1530	2110	10	2	5	79	180	792	5268	4	8	93
EF/CEF126S	6	150	1100	312	1922	2510	12	2	6,6	106	220	968	7902	6	12	130
EF/CEF128	8	200	1100	312	1922	2510	12	2	6,6	106	320	1408	7902	6	12	133
EF/CEF1210	10	250	1100	312	1922	2510	12	2	6,6	106	380	1672	7902	6	12	142





Vertical Self-Cleaning **Hydraulic Filter**

VDF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Experience Complete Independence.

The VDF series delivers non-stop filtration using a robust hydraulic system that requires zero external power, providing both proven reliability and intrinsic safety for hazardous environments. This powerful combination is packed into a smart, space-saving vertical design, perfect for any facility where uptime and security are critical.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Pressure Difference Setup
- Control System : Hydraulic
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

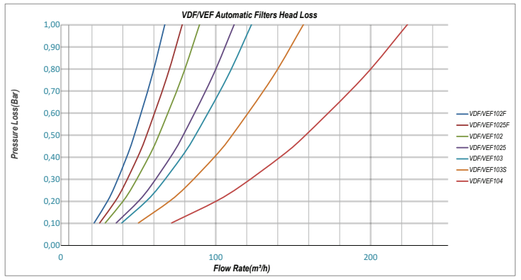
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

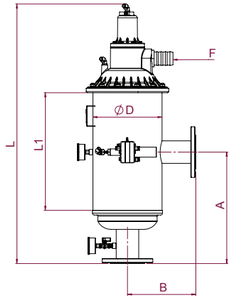
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
VDF/CVDF102F	2	50	310	270	205	760	10	2	3,3	53	30	132	658	2	1	22
VDF/CVDF1025F	2 1/2	65	310	270	205	760	10	2	3,3	53	40	176	658	2	1	23
VDF/CVDF102	2	50	390	270	365	920	10	2	3,3	53	40	176	1317	2	2	37
VDF/CVDF1025	2 1/2	65	390	270	365	920	10	2	3,3	53	50	220	1317	2	2	38
VDF/CVDF103	3	80	390	270	365	920	10	2	3,3	53	55	242	1317	2	2	39
VDF/CVDF103S	3	80	440	270	465	1020	10	2	4,1	66	70	308	1975	3	3	42
VDF/CVDF104	4	100	440	270	465	1020	10	2	4,1	66	100	440	1975	3	3	44





Horizontal Self-Cleaning **Hydraulic Filter**

VHF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

The Definition of Mechanical Power.

The VHF series is where rugged engineering meets pure autonomy. Its robust hydraulic system delivers non-stop, self-cleaning filtration. By using zero external energy, it provides intrinsic safety for hazardous environments, making it the ultimate "set-and-forget" solution for total reliability where security is non-negotiable.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Pressure Difference Setup
- Control System : Hydraulic
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

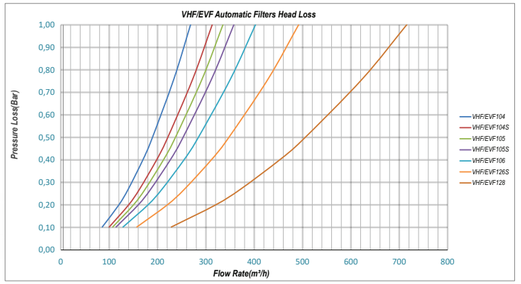
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

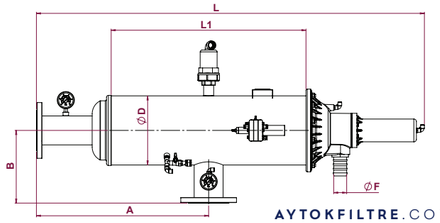
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
VHF/CVHF104	4	100	680	287	770	1532	10	2	3,3	53	120	528	2634	2	4	61
VHF/CVHF104S	4	100	780	287	970	1725	10	2	4,1	66	140	616	3951	3	6	67
VHF/CVHF105	5	125	780	287	970	1725	10	2	4,1	66	150	660	3951	3	6	69
VHF/CVHF105S	5	125	880	287	1170	1925	10	2	5	79	160	704	5268	4	8	74
VHF/CVHF106	6	150	880	287	1170	1925	10	2	5	79	180	792	5268	4	8	81
VHF/CVHF126S	6	150	1085	312	1587	2335	12	2	6,6	106	220	968	7902	6	12	122
VHF/CVHF128	8	200	1085	312	1587	2335	12	2	6,6	106	320	1408	7902	6	12	125





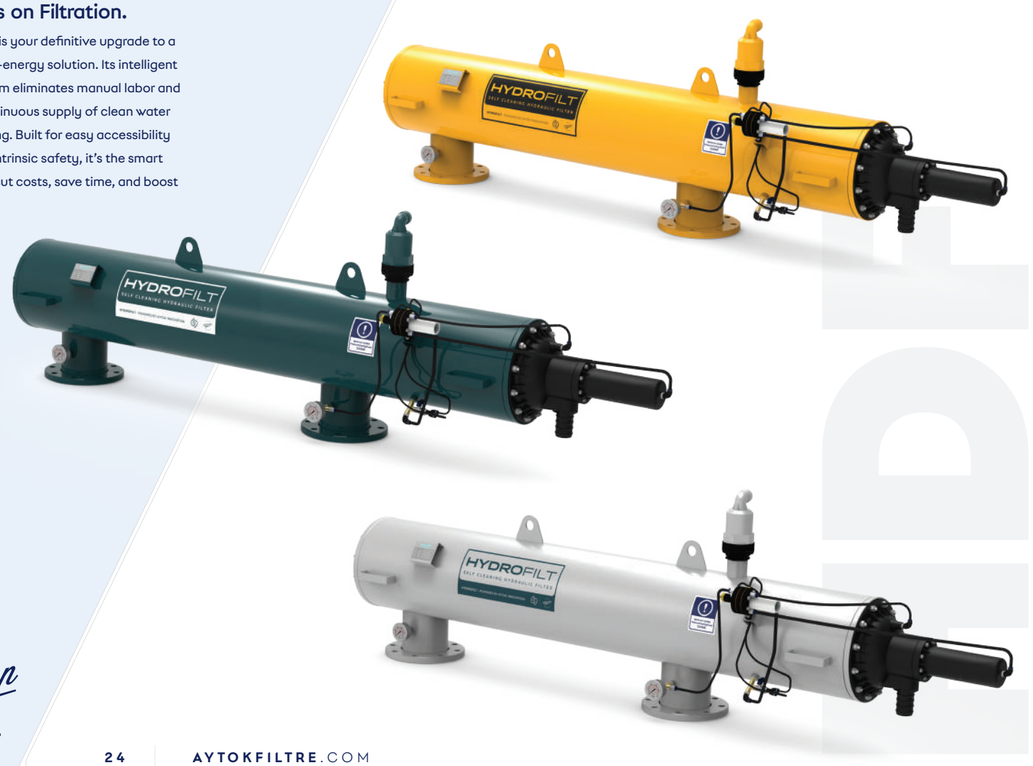
Horizontal Self-Cleaning **Hydraulic Filter**

HDF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Stop Wasting Resources on Filtration.

The HDF series is your definitive upgrade to a hands-off, zero-energy solution. Its intelligent hydraulic system eliminates manual labor and provides a continuous supply of clean water without stopping. Built for easy accessibility and featuring intrinsic safety, it's the smart investment to cut costs, save time, and boost reliability.



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Pressure Difference Setup
- Control System : Hydraulic
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

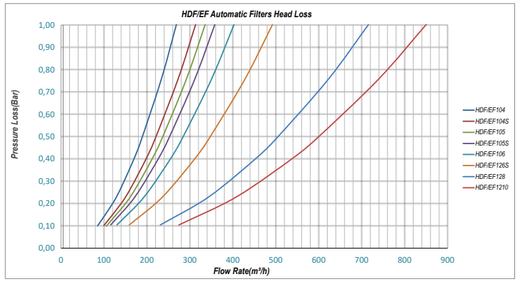
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

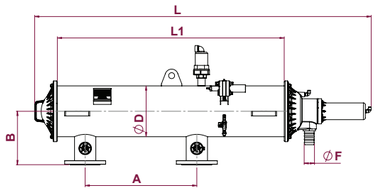
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
HDF/CHDF104	4	100	500	287	1020	1600	10	2	3,3	53	120	528	2634	2	4	71
HDF/CHDF104S	4	100	600	287	1220	1800	10	2	4,1	66	140	616	3951	3	6	81
HDF/CHDF105	5	125	600	287	1220	1800	10	2	4,1	66	150	660	3951	3	6	83
HDF/CHDF105S	5	125	900	287	1530	2110	10	2	5	79	160	704	5268	4	8	89
HDF/CHDF106	6	150	900	287	1530	2110	10	2	5	79	180	792	5268	4	8	93
HDF/CHDF126S	6	150	1100	312	1922	2510	12	2	6,6	106	220	968	7902	6	12	130
HDF/CHDF128	8	200	1100	312	1922	2510	12	2	6,6	106	320	1408	7902	6	12	133
HDF/CHDF1210	10	250	1100	312	1922	2510	12	2	6,6	106	380	1672	7902	6	12	142





Vertical Self-Cleaning **Electronic Filter**

VBE

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Uncompromising Performance, Zero Wasted Space.

The VBE series proves a compact design doesn't mean a compromise in power. Its robust self-cleaning system is engineered to activate even when heavily clogged, making it an un-stoppable powerhouse for facilities where every square meter counts.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

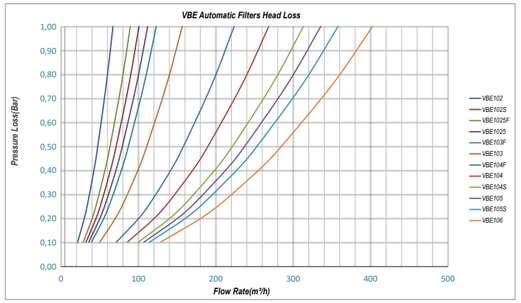
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

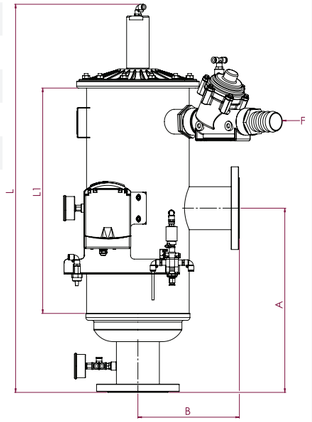
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
VBE/CVBE102	2	50	390	270	400	835	10	2	3,3	53	30	132	1317	2	2	46
VBE/CVBE102S	2	50	440	270	500	935	10	2	4,1	66	45	198	1975	3	3	50
VBE/CVBE1025F	2 1/2	65	390	270	400	835	10	2	3,3	53	40	176	1317	2	2	51
VBE/CVBE1025	2 1/2	65	440	270	500	935	10	2	4,1	66	50	220	1975	3	3	52
VBE/CVBE103F	3	80	390	270	400	835	10	2	3,3	53	55	242	1317	2	2	52
VBE/CVBE103	3	80	440	270	500	935	10	2	4,1	66	70	308	1975	3	3	54
VBE/CVBE104F	4	100	440	270	500	935	10	2	4,1	66	100	440	1975	3	3	56
VBE/CVBE104	4	100	490	270	600	1035	10	2	5	79	120	528	2634	4	4	59
VBE/CVBE104S	4	100	760	287	925	1535	10	2	4,1	66	140	616	3951	3	6	76
VBE/CVBE105	5	125	760	287	925	1535	10	2	4,1	66	150	660	3951	3	6	79
VBE/CVBE105S	5	125	840	287	1125	1735	10	2	5	79	160	704	5268	4	8	85
VBE/CVBE106	6	150	840	287	1125	1735	10	2	5	79	180	792	5268	4	8	90





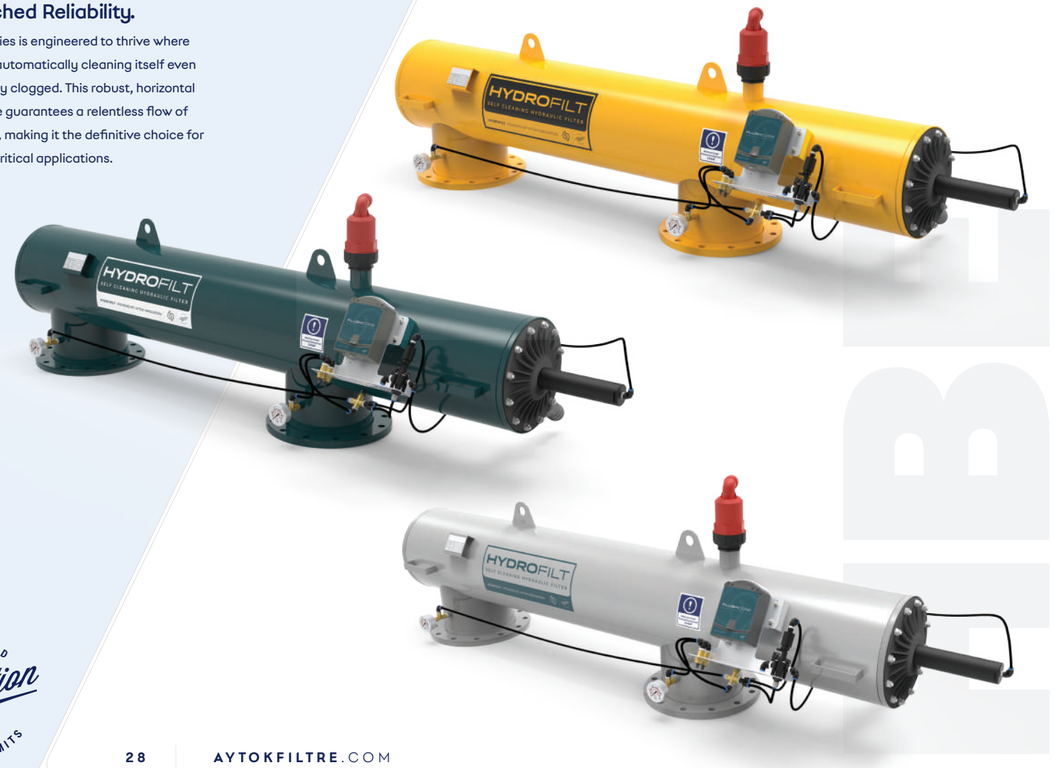
Horizontal Self-Cleaning **Electronic Filter**

HBE

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Unstoppable Performance, Unmatched Reliability.

The HBE series is engineered to thrive where others fail, automatically cleaning itself even when heavily clogged. This robust, horizontal powerhouse guarantees a relentless flow of clean water, making it the definitive choice for your most critical applications.



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 2.5 bar ; 36Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

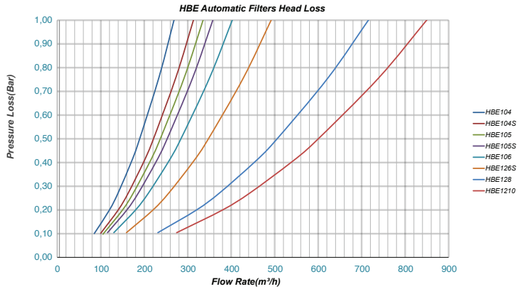
The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

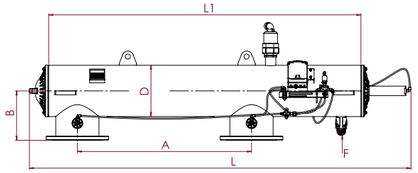
WORKING PRINCIPLE

Water enters through the inlet line and flows toward the outlet line of the filter. During the cleaning process, the drain line serves as the discharge path for accumulated contaminants. The piston rod is responsible for linear motion, allowing the nozzles to scan the surface of the filter screens during cleaning. When water enters the system, it first passes through a coarse screen for preliminary filtration, followed by a fine screen for further filtration. As water flows through the fine screen, particles are retained on its surface. During the cleaning cycle, these particles are suctioned by the nozzles and transported to the cleaning collector. The turbine chamber is connected to the atmosphere and houses the turbine, which generates rotational motion to drive the nozzles. The combination of the linear motion of the piston rod and the rotational motion from the turbine ensures complete coverage of the screen surfaces. The hydraulic piston drives the piston rod. Activation of the piston and the opening of the drain valve occur simultaneously.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
HBE/CHBE104	4	100	500	287	1071	1510	10	2	3,3	53	120	528	2634	2	4	64
HBE/CHBE104S	4	100	600	287	1274	1710	10	2	4,1	66	140	616	3951	3	6	75
HBE/CHBE105	5	125	600	287	1274	1710	10	2	4,1	66	150	660	3951	3	6	78
HBE/CHBE105S	5	125	900	287	1565	2020	10	2	5	79	160	704	5268	4	8	89
HBE/CHBE106	6	150	900	287	1565	2020	10	2	5	79	180	792	5268	4	8	94
HBE/CHBE126S	6	150	1100	312	1954	2410	12	2	6,6	106	220	968	7902	6	12	132
HBE/CHBE128	8	200	1100	312	1954	2410	12	2	6,6	106	320	1408	7902	6	12	135
HBE/CHBE1210	10	250	1100	312	1954	2410	12	2	6,6	106	380	1672	7902	6	12	166





Vertical Self-Cleaning
Filter With Motor Reducer

VRF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Don't Let Low Pressure Compromise Your Filtration.

The VRF series excels where others fail, delivering powerful, automatic self-cleaning at pressures as low as 1 bar. Its system ensures uninterrupted operation by cleaning itself while filtering, all in a smart, space-saving vertical design that maximizes performance.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

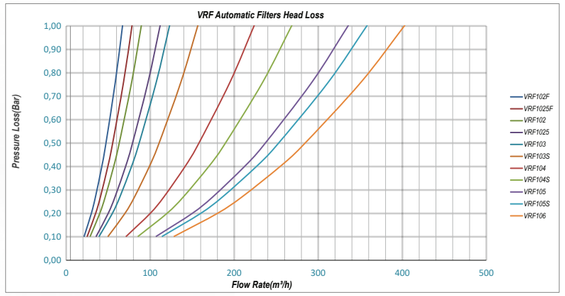
The cleaning process is initiated either after a predefined time interval or when the differential pressure across the screen reaches the set threshold. Once triggered, the discharge line automatically opens via the actuator valve, and the control unit activates the backwash cycle. As the discharge line opens, a strong vacuum effect is generated at the washing manifold and nozzles near the screen surface. This vacuum suctions the particles retained on the screen and discharges them into the atmosphere. To ensure complete coverage of the screen surface, adjustable position sensors are installed. These sensors act as limiters for the AC motor with gearbox, which provides both circular and linear motion. The combination of these movements guarantees that the entire screen surface is scanned and thoroughly cleaned. Once the motor automatically completes its forward and backward movements, the cleaning cycle ends and the discharge line closes. During backwashing, filtration continues without interruption.

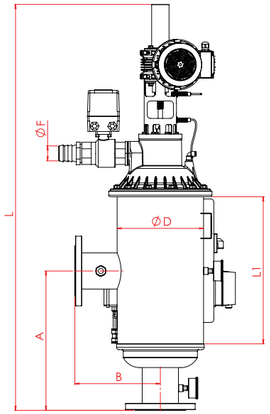
WORKING PRINCIPLE

Water enters the filtration system through the inlet line. It first passes through a coarse screen for preliminary filtration, then flows into the fine screen for final filtration. The clean water is then discharged from the outlet line to the clean water network. As water flows through the fine screen, suspended particles accumulate on its inner surface. This accumulation gradually creates a differential pressure across the screen, which serves as the trigger for the automated backwash process.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
VRF/CVRF102F	2	50	310	270	205	1022	10	2	3,3	53	30	132	658	2	1	27
VRF/CVRF1025F	2 1/2	65	310	270	205	1022	10	2	3,3	53	40	176	658	2	1	28
VRF/CVRF102	2	50	390	270	365	1182	10	2	3,3	53	40	176	1317	2	2	43
VRF/CVRF1025	2 1/2	65	390	270	365	1182	10	2	3,3	53	50	220	1317	2	2	44
VRF/CVRF103	3	80	390	270	365	1182	10	2	3,3	53	55	242	1317	2	2	45
VRF/CVRF103S	3	80	440	270	465	1282	10	2	4,1	66	70	308	1975	3	3	48
VRF/CVRF104	4	100	440	270	465	1282	10	2	4,1	66	100	440	1975	3	3	50
VRF/CVRF104S	4	100	490	270	565	1432	10	2	5	79	120	528	2634	4	4	52
VRF/CVRF105	5	125	690	287	880	2012	10	2	4,1	66	150	660	3951	3	6	60
VRF/CVRF105S	5	125	840	287	1080	2212	10	2	5	79	160	704	5268	4	8	132
VRF/CVRF106	6	150	840	287	1080	2212	10	2	5	79	180	792	5268	4	8	135





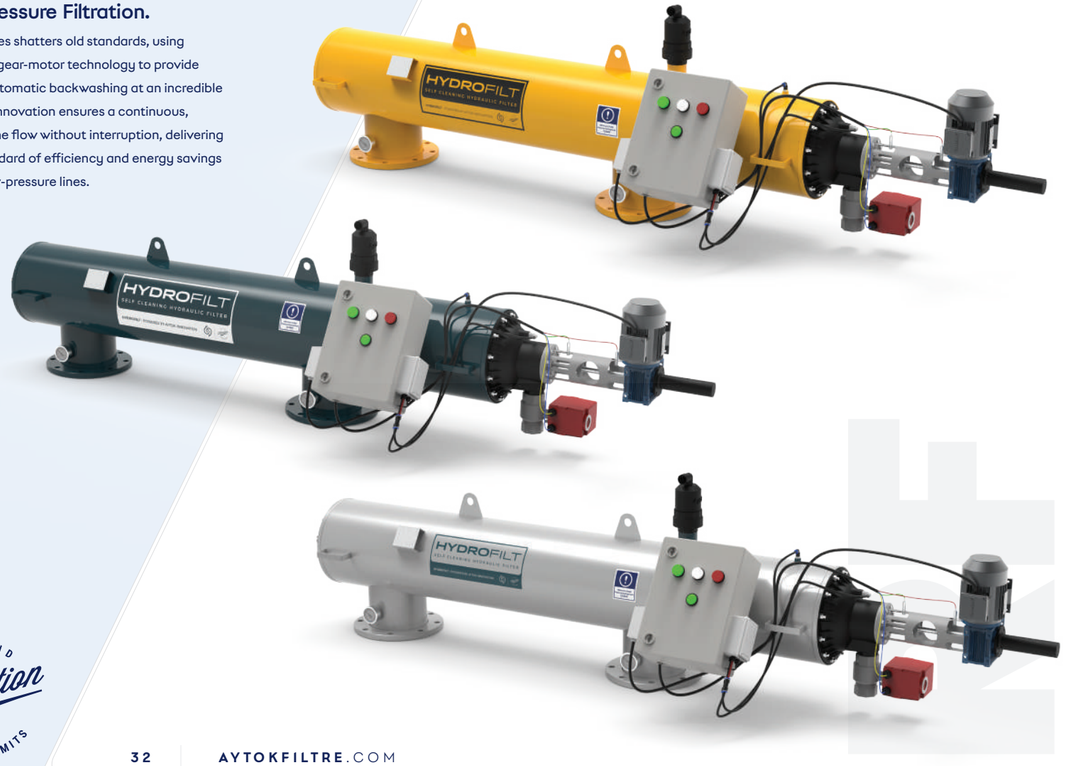
Horizontal Self-Cleaning
Filter With Motor Reducer

RF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

A Revolution in Low-Pressure Filtration.

The RF series shatters old standards, using advanced gear-motor technology to provide reliable, automatic backwashing at an incredible 1 bar. This innovation ensures a continuous, high-volume flow without interruption, delivering a new standard of efficiency and energy savings to your low-pressure lines.



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10bar ; 145Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC)
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

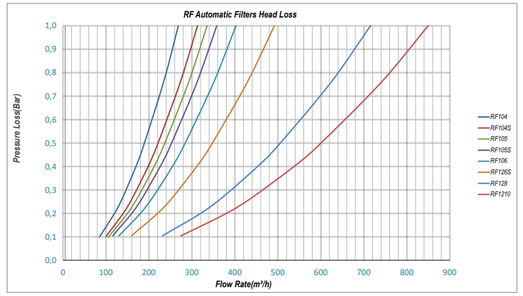
The cleaning process is initiated either after a predefined time interval or when the differential pressure across the screen reaches the set threshold. Once triggered, the discharge line (5) automatically opens via the actuator valve (6), and the control unit (7) activates the backwash cycle. As the discharge line opens, a strong vacuum effect is generated at the washing manifold (8) and nozzles (9) near the screen surface. This vacuum suctions the particles retained on the screen and discharges them into the atmosphere. To ensure complete coverage of the screen surface, adjustable position sensors (10) are installed. These sensors act as limiters for the AC motor with gearbox (11), which provides both circular and linear motion. The combination of these movements guarantees that the entire screen surface is scanned and thoroughly cleaned. Once the motor automatically completes its forward and backward movements, the cleaning cycle ends and the discharge line closes. During backwashing, filtration continues without interruption.

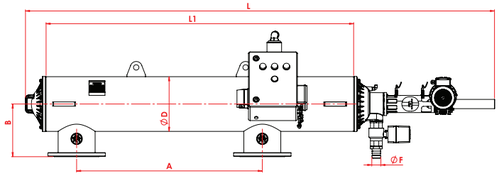
WORKING PRINCIPLE

Water enters the filtration system through the inlet line. It first passes through a coarse screen for preliminary filtration, then flows into the fine screen for final filtration. The clean water is then discharged from the outlet line to the clean water network. As water flows through the fine screen, suspended particles accumulate on its inner surface. This accumulation gradually creates a differential pressure across the screen, which serves as the trigger for the automated backwash process.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
RF/CRF104	4	100	500	287	920	1770	10	2	3,3	53	120	528	2634	2	4	90
RF/CRF104S	4	100	600	287	1120	1970	10	2	4,1	66	140	616	3951	3	6	100
RF/CRF105	5	125	600	287	1120	1970	10	2	4,1	66	150	660	3951	3	6	100
RF/CRF105S	5	125	900	287	1430	2285	10	2	5	79	160	704	5268	4	8	108
RF/CRF106	6	150	900	287	1430	2285	10	2	5	79	180	792	5268	4	8	110
RF/CRF126S	6	150	1100	312	1822	2825	12	2	6,6	106	220	968	7902	6	12	150
RF/CRF128	8	200	1100	312	1822	2825	12	2	6,6	106	320	1408	7902	6	12	152
RF/CRF1210	10	250	1100	312	1822	2825	12	2	6,6	106	380	1672	7902	6	12	165





Semi-Automatic
Metal Screen Filter

MF

HYDROFILT AUTOMATIC **SCREEN FILTERS**

Effortless Cleaning, Uninterrupted Flow.

The MF series puts powerful, semi-automatic cleaning at your fingertips. Simply turn the handle to flush contaminants without shutting down your system. It's the perfect solution for reducing labor and maximizing uptime, offering reliable filtration with smart, operator-initiated control.

+

Optionally On-line Models

MF-H

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR / SS304L / SS316L
- Screen Material (Internal Kit) : SS304L,PA6GFR30
- Maximum Working Pressure : 10 bar ; 145 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic Control
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

The cleaning process is triggered either by elapsed time or a differential pressure threshold. Differential pressure results from particle accumulation on the screen surface, which restricts water flow. This pressure difference—an undesirable condition—is resolved by the cleaning cycle. The filter is programmed to automatically start the cleaning process once the user-defined differential pressure value (recommended at 0.5 bar) is reached, thereby restoring normal operation. When the drain valve opens, a strong vacuum effect is created inside the filter, drawing debris from the screen surface. This suction helps the nozzles effectively remove particles from the screen and discharge them from the system. Once the process is complete, the cleaning collector automatically returns to its original position, and normal filtration resumes. During backwashing, the filtering process continues. To ensure efficient operation, the inlet pressure should not be less than 2 bar (29 psi) during backwashing.

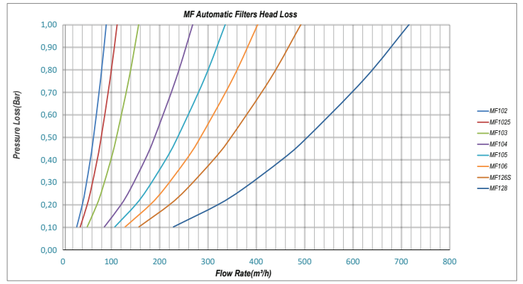
WORKING PRINCIPLE

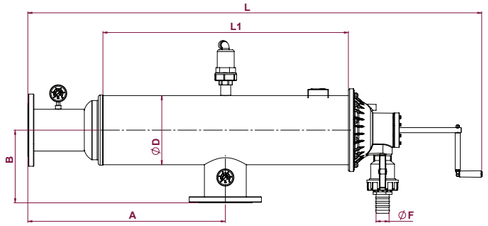
Water enters through the inlet line and flows toward the outlet line of the filter. It first passes through a coarse screen for preliminary filtration, followed by a fine screen where particles are retained on its surface.

During the cleaning process, accumulated contaminants are discharged through the drain line. The handle kit creates both linear and rotational motion, driving the cleaning collector. This allows the nozzles to scan the entire surface of the fine screen, suctioning particles that are then transported out through the collector. The combination of linear and rotational motion from the handle kit ensures complete coverage of the screen surfaces.

Technical Specifications

CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen	Weight
	Inch	DN	mm	mm	mm	mm	Inch	Inch	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.		kg
MF/CMF102	2	50	390	270	365	1010	10	2	3,3	53	40	176	1317	2	2	36
MF/CMF1025	2 1/2	65	390	270	365	1010	10	2	3,3	53	50	220	1317	2	2	37
MF/CMF103	3	80	440	270	465	1110	10	2	4,1	66	70	308	1975	3	3	41
MF/CMF104	4	100	580	270	570	1210	10	2	5	79	120	528	2634	4	4	48
MF/CMF105	5	125	680	287	770	1400	10	2	4,1	66	150	660	3951	3	6	57
MF/CMF106	6	150	780	287	970	1600	10	2	5	79	180	792	5268	4	8	67
MF/CMF126S	6	150	985	312	1390	2020	12	2	6,6	106	220	968	7902	6	12	123
MF/CMF128	8	200	985	312	1390	2020	12	2	6,6	106	340	1496	7902	6	12	127





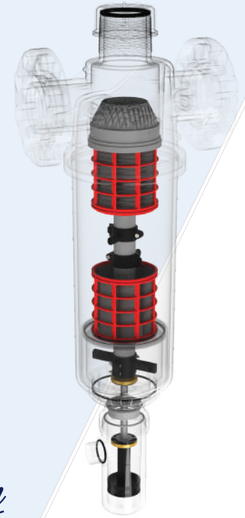
Plastic
Automatic Filter

P-HF

HYDROFILT AUTOMATIC SCREEN FILTERS

Smart. Automated. Unstoppable.

This is the new era of plastic filtration. Our Plastic Automatic Filter fuses intelligent, hands-free automation with a rugged, corrosion-proof body to deliver a constant flow of clean water, ensuring total system protection and long-term reliability.



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

The backwash sequence is triggered by either a preset pressure differential or a time interval. Upon activation, the control unit opens the discharge valve. Exposing this valve to atmospheric pressure creates a significant pressure drop, inducing a powerful reverse flow.

This reverse flow drives a hydraulic turbine, which rotates the cleaning collector as a piston moves it linearly. The collector's nozzles generate a high-velocity suction, vacuuming accumulated debris from the inner screen and expelling it through the drainage pipe.

This combined helical motion ensures a systematic and thorough cleaning of the entire screen surface. Once complete, the discharge valve closes and the collector returns to its home position, concluding the cycle.

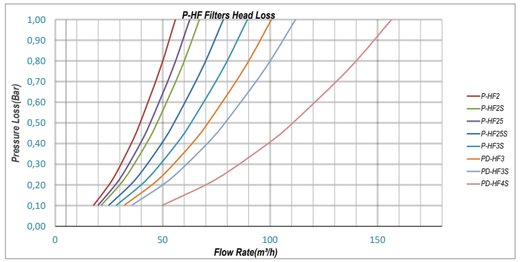
Crucially, the main filtration process continues uninterrupted throughout this self-cleaning process.

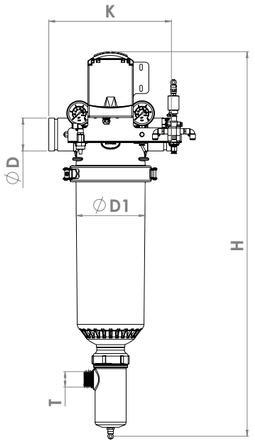
WORKING PRINCIPLE

Water enters the filter and passes sequentially through a coarse and then a fine screen. As contaminants accumulate on the inner surface of the fine screen, a pressure differential is created between the inlet and outlet. A backwash cycle is automatically initiated based on one of two conditions: when this pressure differential reaches a predetermined setpoint, or after a preset time interval has elapsed, whichever occurs first.

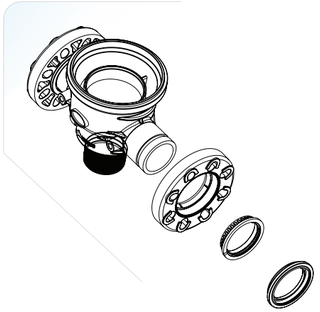
Technical Specifications

CODE	Inlet/Outlet (D)		D1	K	T	H	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen
	Inch	DN	mm	mm	mm	mm	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.	
P-HF2	2	25	190	335	1,25	870	1,9	29	25	110	760	4	2
P-HF2S	2	30	190	335	1,25	990	2,8	44	30	132	1140	6	3
P-HF25	2,5	28	190	335	1,25	870	1,9	29	28	123,2	760	4	2
P-HF25S	2,5	35	190	335	1,25	990	2,8	44	35	154	1140	6	3
P-HF3S	3	40	190	335	1,25	990	2,8	44	40	176	1140	6	3





Connection Type:
Victaulic/Threaded/Optionally 3" Flanged



Metal Clamp

Plastic Clamp

Plastic
Automatic Filter

PD-HF

HYDROFILT AUTOMATIC SCREEN FILTERS

Double the Performance. Unleash the Power.

Smart. Automated. Unstoppable. Now amplified. Introducing the dual-body version of our Plastic Automatic Filter. We've taken our revolutionary intelligent automation and corrosion-proof body and doubled the filtration surface area and flow rate capacity. The result? An unrelenting flow of ultra-clean water and unrivaled system protection, even for the most demanding industrial applications.

PD-HF

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

The backwash sequence is triggered for an individual filter unit by either a preset pressure differential or a time interval. Upon activation, the control unit opens the discharge valve of the designated unit. Exposing this valve to atmospheric pressure creates a significant pressure drop, inducing a powerful reverse flow.

This reverse flow drives a hydraulic turbine, which rotates the cleaning collector while a piston moves it linearly. The collector's nozzles generate high-velocity suction, vacuuming accumulated debris from the inner screen and expelling it through the drainage pipe. This combined helical motion ensures a systematic and thorough cleaning of the entire screen surface.

During the backwash process, both sides of the double-body filter continue filtering simultaneously — only a temporary pressure drop is observed. The cleaning sequence is then performed sequentially for each side of the double-body unit.

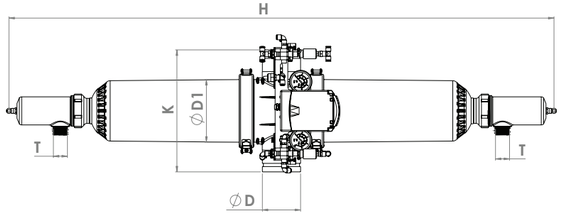
Once complete, the discharge valve closes and the collector returns to its home position, concluding the cycle for that unit. Throughout this self-cleaning process, system filtration continues uninterrupted.

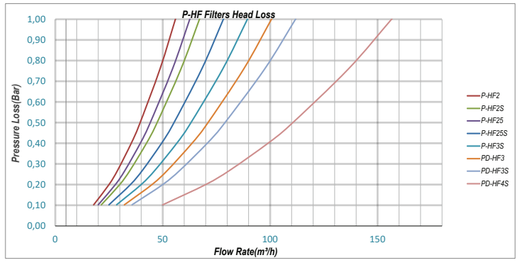
WORKING PRINCIPLE

Water enters the filter and passes sequentially through a coarse and then a fine screen. As contaminants accumulate on the inner surface of the fine screen, a pressure differential is created between the inlet and outlet. A backwash cycle is automatically initiated based on one of two conditions: when this pressure differential reaches a predetermined setpoint, or after a preset time interval has elapsed, whichever occurs first.

Technical Specifications

CODE	Inlet/Outlet (D)		D1	K	T	H	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen
	Inch	DN	mm	mm	mm	mm	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.	
PD-HF3	3	45	190	365	1,25	1410	1,9	29	45	198	1520	8	4
PD-HF3S	3	50	190	365	1,25	1650	2,8	44	50	220	2280	12	6
PD-HF4S	4	70	190	365	1,25	1650	2,8	44	70	308	2280	12	6

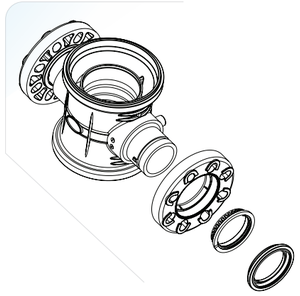




Metal Clamp

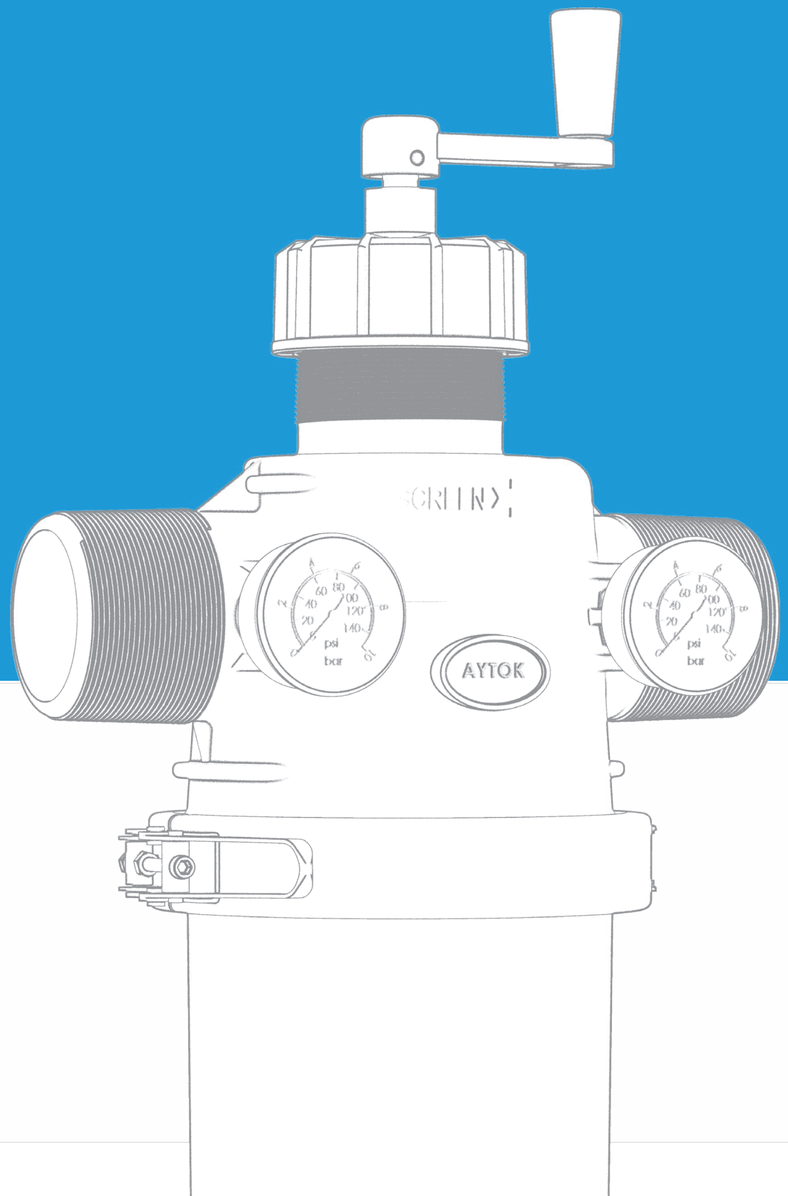
Plastic Clamp

Connection Type:
Victaulic/Threaded/Flanged



SİSTEM GİRİŞİ
FİLTRE GİRİŞİ
SİSTEM ÇIKIŞI
Aytok
BEYOND
Filtration
BEYOND LIMITS

+ PRODUCTS GROUP



PLASTIC
FILTERS

BEYOND
FILTRATION
BEYOND
× LIMITS

Mini **Filters**

MPE & MPD

PLASTIC **FILTERS**

Maximum Performance. Minimal Space.

Designed for efficiency in tight spaces, Aytok MPD-MPE filters provide a robust and versatile solution for low-flow water systems. They are perfectly suited for applications like garden irrigation, fertigation, and protecting small-scale cooling equipment.

+

MPD DISC

MPE SCREEN

MPE-MPD

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

MPD

- Body Material : PP
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 130 µ (micron)

MPE

- Body Material : PP
- Cartridge Material : SS304L, PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 80, 100, 130, 200 µ (micron)

CLEANING PROCESS

The pressure differential is manually monitored via the inlet and outlet manometers. An increase in pressure indicates the need for cleaning. To begin, shut off the water supply and depressurize the system. Then, remove the cover and extract the filter cartridge.

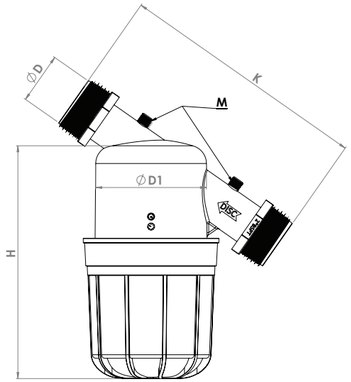
The cleaning method depends on the filter type. A screen filter element is cleaned directly with pressurized water. For a disc filter, the cartridge's retaining screw must be loosened to separate the discs for a thorough cleaning with pressurized water. After cleaning, the filter is reassembled and ready for service.

WORKING PRINCIPLE

Water enters the filter and passes through the filtration element (either a fine screen or a set of discs). During operation, contaminants gradually accumulate on the surface of this element—the inner surface for screens or the outer surface for discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. Manual cleaning is required when this pressure differential reaches 0.7 bar.

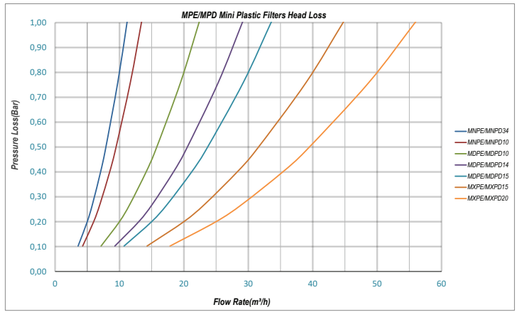
MPD - Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
MNPD34	3/4	20	-	3/4	68	190	160	5	22	185	0,45
MNPD10	1	25	-	3/4	68	190	160	6	26,4	185	0,45
MDPD10	1	25	-	3/4	96	230	220	10	44	325	1
MDPD14	1 1/4	32	-	3/4	96	230	220	13	66	325	1
MDPD15	1 1/2	40	-	3/4	96	230	220	15	66	325	1
MXPD15	1 1/2	40	1/4	3/4	120	280	270	20	88	550	1,5
MXPD20	2	50	1/4	3/4	120	280	270	25	110	550	1,5



MPE - Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
MNPE34	3/4	20	-	3/4	68	190	160	5	22	165	0,3
MNPE10	1	25	-	3/4	68	190	160	6	26,4	165	0,3
MDPE10	1	25	-	3/4	96	230	220	10	44	300	0,75
MDPE14	1 1/4	32	-	3/4	96	230	220	13	66	300	0,75
MDPE15	1 1/2	40	-	3/4	96	230	220	15	66	300	0,75
MXPE15	1 1/2	40	1/4	3/4	120	280	270	20	88	515	1,2
MXPE20	2	50	1/4	3/4	120	280	270	25	110	515	1,2



Manual Plastic
Single Filters

PD & PE

PLASTIC **FILTERS**

Engineered for Lasting Durability

Aytok PD/PE manual filters are built to withstand the elements. Featuring a robust polyamide body, these filters use high-quality materials for all critical components, including a corrosion-resistant AISI 304 stainless steel cartridge in the screen models. This smart and versatile design guarantees years of trouble-free performance, delivering reliability you can count on.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

PD

- Body Material : PA6GFR30
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

PE

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20-2000 µ (micron)

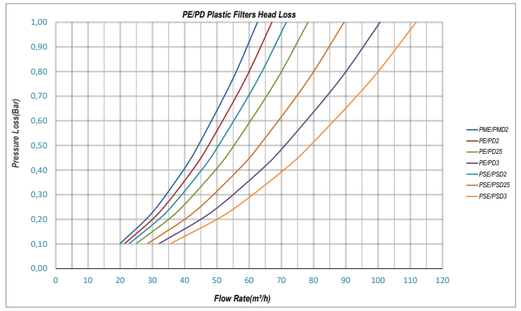
CLEANING PROCESS

The pressure differential is manually monitored via the inlet and outlet manometers. An increase in pressure indicates the need for cleaning. To begin, shut off the water supply and depressurize the system. Then, remove the cover and extract the filter cartridge.

The cleaning method depends on the filter type. A screen filter element is cleaned directly with pressurized water. For a disc filter, the cartridge's retaining screw must be loosened to separate the discs for a thorough cleaning with pressurized water. After cleaning, the filter is reassembled and ready for service.

WORKING PRINCIPLE

Water enters the filter and passes through the filtration element (either a fine screen or a set of discs). During operation, contaminants gradually accumulate on the surface of this element—the inner surface for screens or the outer surface for discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. Manual cleaning is required when this pressure differential reaches 0.7 bar.



PD - Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
PMD2	2	50	1/4	3/4	190	530	335	28	123,2	868	6
PD2	2	50	1/4	3/4	190	650	335	30	132	1302	7
PD25	2 1/2	65	1/4	3/4	190	650	335	35	154	1302	7,1
PD3	3	80	1/4	3/4	190	650	335	45	198	1302	7,2
PSD2	2	50	1/4	3/4	190	765	335	35	154	1805	8
PSD25	2 1/2	65	1/4	3/4	190	765	335	40	176	1805	8,1
PSD3	3	80	1/4	3/4	190	765	335	50	220	1805	8,2

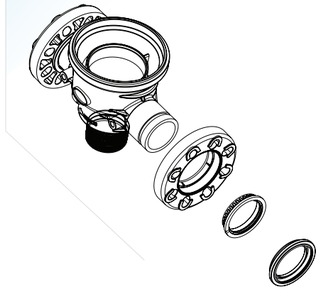
PE - Technical Specifications

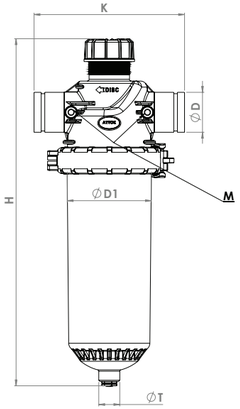
CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
PME2	2	50	1/4	3/4	190	530	335	28	123,2	760	5,2
PE2	2	50	1/4	3/4	190	650	335	30	132	1140	5,4
PE25	2 1/2	65	1/4	3/4	190	650	335	35	154	1140	5,5
PE3	3	80	1/4	3/4	190	650	335	45	198	1140	5,6
PSE2	2	50	1/4	3/4	190	765	335	35	154	1520	6,3
PSE25	2 1/2	65	1/4	3/4	190	765	335	40	176	1520	6,4
PSE3	3	80	1/4	3/4	190	765	335	50	220	1520	6,5

Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Optionally 3" Flanged





Manual Plastic
Double Filters

DD & DE

PLASTIC **FILTERS**

Double the Capacity. Uncompromised Reliability.

The Aytok DE-DD series is engineered with legendary durability to meet the highest demands. Its smart, dual-body design doubles the filtration surface, enabling it to handle significantly higher flow rates while drastically reducing cleaning frequency. Built with a robust polyamide body, the series offers unmatched corrosion resistance in its screen models (DE/DSE), which feature high-quality AISI 304 stainless steel cartridges. This guarantees years of trouble-free performance, delivering superior reliability for your most demanding applications.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

DD

- Body Material : PA6GFR30
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity For (3"-4") : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity For (6") : 130 µ (micron)

DE

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

The pressure differential is manually monitored via the inlet and outlet manometers. An increase in pressure indicates the need for cleaning. To begin, shut off the water supply and depressurize the system. Then, remove the cover and extract the filter cartridge.

The cleaning method depends on the filter type. A screen filter element is cleaned directly with pressurized water. For a disc filter, the cartridge's retaining screw must be loosened to separate the discs for a thorough cleaning with pressurized water. After cleaning, the filter is reassembled and ready for service.

WORKING PRINCIPLE

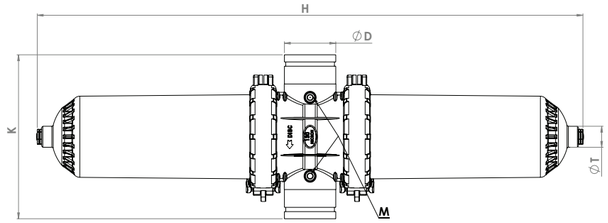
Water enters the filter and passes through the filtration element (either a fine screen or a set of discs). During operation, contaminants gradually accumulate on the surface of this element—the inner surface for screens or the outer surface for discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. Manual cleaning is required when this pressure differential reaches 0.7 bar.

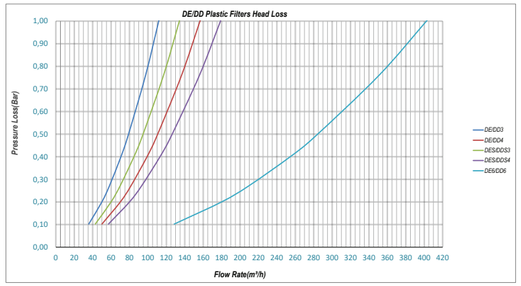
DD - Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
DD3	3	80	1/4	3/4	190	977	365	50	220	2604	11,4
DD4	4	100	1/4	3/4	190	977	365	70	308	2604	11,6
DDS3	3	80	1/4	3/4	190	1216	365	60	264	3610	13,6
DDS4	4	100	1/4	3/4	190	1216	365	80	352	3610	13,8
DD6	6	150	1/4	2	242	1658	462	180	792	6212	28

DE - Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
DE3	3	80	1/4	3/4	190	977	365	50	220	2280	8,4
DE4	4	100	1/4	3/4	190	977	365	70	308	2280	8,6
DES3	3	80	1/4	3/4	190	1216	365	60	264	3040	9,8
DES4	4	100	1/4	3/4	190	1216	365	80	352	3040	10
DE6	6	150	1/4	2	242	1658	462	180	792	5532	21

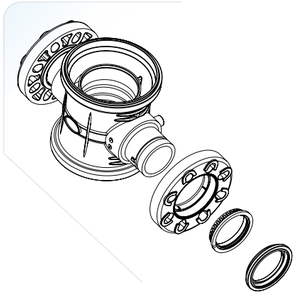




Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Flanged



Plastic Semi Automatic
Single Filters

PV & PVS

PLASTIC **FILTERS**

Engineered for Continuous Flow.

Aytok semi-automatic filters are built to ensure your operations never stop, delivering an uninterrupted supply of clean water even during cleaning cycles. Their smart design uses a pressure differential system to alert the user when a manual cleaning cycle is needed. This simple user-activated flush efficiently purges all contaminants without halting filtration, guaranteeing trouble-free performance and delivering constant reliability when it matters most.

PV - PVS

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic Control
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

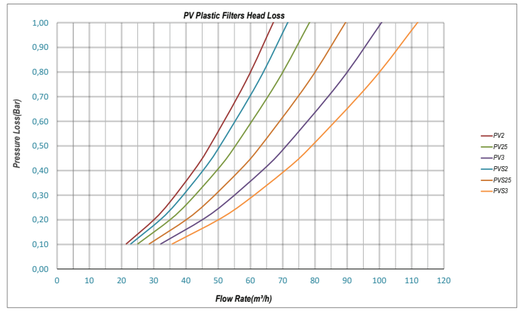
The manual flushing process is initiated by opening the filter's flush valve and rotating the cleaning handle at a constant speed. This rotation moves a set of internal nozzles across the screen surface. The open valve creates a localized pressure drop, generating a high-velocity suction effect through the nozzles that vacuums contaminants off the screen and discharges them. The cleaning cycle consists of two passes: a primary pass as the handle is turned to its limit, and a secondary pass as it is rotated back to its home position. The process is completed by closing the flush valve.

WORKING PRINCIPLE

Water enters the filter and passes through the fine screen element. During operation, contaminants gradually accumulate on the inner surface of the screen. This buildup restricts water flow, creating a pressure differential between the filter's inlet and outlet. Manual cleaning is required when this pressure differential reaches 0.7 bar.

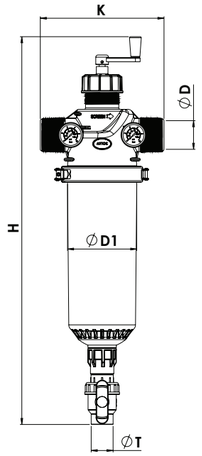
Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
PV2	2	50	1/4	1 1/2	190	925	335	30	132	1140	7,2
PV25	2 1/2	65	1/4	1 1/2	190	925	335	35	154	1140	7,4
PV3	3	80	1/4	1 1/2	190	925	335	45	198	1140	7,6
PVS2	2	50	1/4	1 1/2	190	1045	335	35	154	1520	8,2
PVS25	2 1/2	65	1/4	1 1/2	190	1045	335	40	176	1520	8,4
PVS3	3	80	1/4	1 1/2	190	1045	335	50	220	1520	8,7



Metal Clamp

Plastic Clamp



Connection Type:
Victaulic/Threaded/Optionally 3" Flanged

Plastic Semi Automatic **Double Filters**

DV & DVS

PLASTIC **FILTERS**

Maximum Flow.
Minimum Intervention.

Aytok DV & DVS semi-automatic filters are engineered to master high-demand systems. Their dual-body design offers a massive filtration area, drastically reducing cleaning frequency and maximizing uptime. When maintenance is required, the smart pressure differential system alerts the operator for a simple, user-activated flush that purges contaminants without ever stopping the main flow. This robust design ensures superior performance, delivering unwavering reliability for your most critical applications.

DV-DVS

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14,5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic Control
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

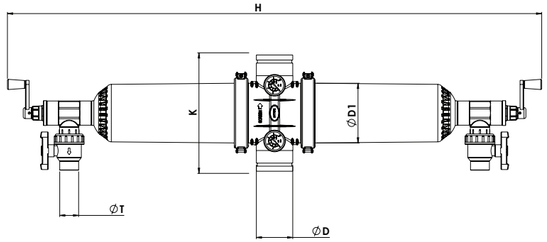
The manual flushing procedure must be performed independently for both filter sides. To clean one side, its corresponding flush valve is opened, and the handle is rotated at a constant speed. This generates a powerful suction effect through internal nozzles, which vacuums contaminants off the screen and discharges them. The cleaning cycle includes a primary pass as the handle is turned to its limit and a secondary pass as it is returned to the starting position. The process for one side is completed by closing the valve. This entire procedure must then be repeated for the other side of the filter.

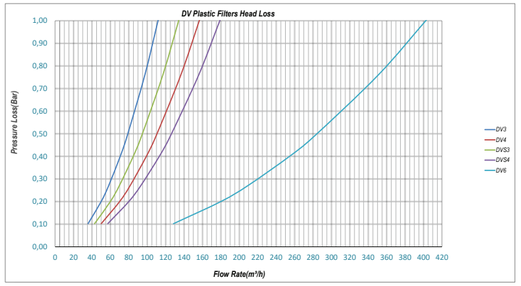
WORKING PRINCIPLE

Water enters the filter and passes through the fine screen element. During operation, contaminants gradually accumulate on the inner surface of the screen. This buildup restricts water flow, creating a pressure differential between the filter's inlet and outlet. Manual cleaning is required when this pressure differential reaches 0.7 bar.

Technical Specifications

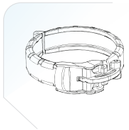
CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
DV3	3	80	1/4	1 1/2	190	1440	365	50	220	2280	12,2
DV4	4	100	1/4	1 1/2	190	1440	365	70	308	2280	12,4
DVS3	3	80	1/4	1 1/2	190	1680	365	60	264	3040	14,2
DVS4	4	100	1/4	1 1/2	190	1680	365	80	352	3040	14,5
DV6	6	150	1/4	1 1/2	242	2300	462	180	792	5532	28



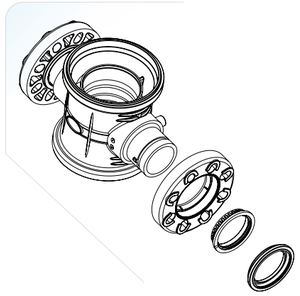


Metal Clamp

Plastic Clamp



Connection Type:
Victaulic/Threaded/Flanged



Plastic Self-Cleaning **Disc Filters**

PSC

PLASTIC **FILTERS**

Engineered for Autonomous Reliability.

Aytok PSC filters deliver fully autonomous, self-cleaning filtration for demanding applications. Their robust design combines a high-strength polyamide body with a precision-engineered backwash mechanism, ensuring exceptional long-term durability. This advanced, hands-off system operates automatically based on time or pressure differential, guaranteeing years of trouble-free performance and providing ultimate peace of mind for your critical operations.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

CLEANING PROCESS

Waterborne particles entering the filter are captured on the outer surface of a compressed disc stack, forming a layer of contaminants. This buildup causes the pressure differential between the filter's inlet and outlet to increase. The system automatically initiates a backwash cycle based on one of two user-defined triggers configured on the control panel: when the pressure differential reaches a preset value, or after a pre-determined time interval has elapsed, whichever occurs first.

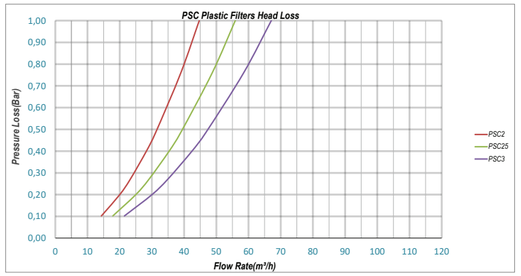
Upon activation, a three-way valve reverses the water flow direction and opens the discharge line. The pressurized water from the outlet acts on an internal spring mechanism, releasing the compression on the discs and allowing them to separate. This reverse flow, combined with the grooved design of the discs, causes them to spin and effectively flushes the accumulated particles from their surfaces out through the drainage line.

WORKING PRINCIPLE

Water enters the filter and passes through the disc stack. During operation, contaminants accumulate on the outer surface of the discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. When this pressure differential reaches a threshold of 0,7 bar, a cleaning cycle is required, which can be initiated either manually or automatically.

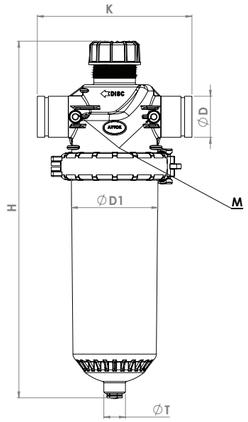
Technical Specifications

CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
PSC2	2	50	1/4	3/4	190	765	335	20	88	1550	9,6
PSC25	2 1/2	65	1/4	3/4	190	765	335	25	110	1550	9,7
PSC3	3	80	1/4	3/4	190	765	335	30	132	1550	9,8



Metal Clamp

Plastic Clamp



Connection Type:
Victaulic/Threaded/Optionally 3" Flanged

Plastic Self-Cleaning
Double Disc Filters

DDSC

PLASTIC **FILTERS**

Engineered for High-Capacity Autonomy.

Aytok DDSC filters deliver fully autonomous, self-cleaning filtration for the most demanding industrial systems. Their innovative dual-body design provides a vast filtration surface to maximize flow rates and minimize backwash frequency. Engineered for industrial-grade durability, its robust construction integrates high-strength polyamide bodies with a precision backwash system. This fully hands-off system guarantees superior performance and unwavering reliability for your mission-critical operations.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Filtration Sensitivity For (3"-4") : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity For (6") : 130 µ (micron)

CLEANING PROCESS

Waterborne particles entering the filter are captured on the outer surface of a compressed disc stack, forming a layer of contaminants. This buildup causes the pressure differential between the filter's inlet and outlet to increase. The system automatically initiates a backwash cycle based on one of two user-defined triggers configured on the control panel: when the pressure differential reaches a preset value, or after a pre-determined time interval has elapsed, whichever occurs first.

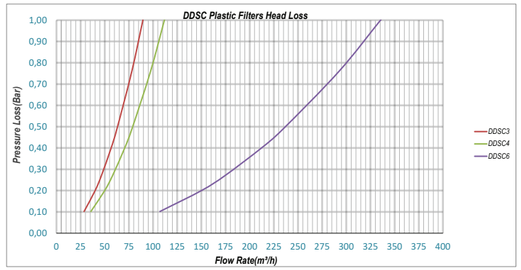
Upon activation, a three-way valve reverses the water flow direction and opens the discharge line. The pressurized water from the outlet acts on an internal spring mechanism, releasing the compression on the discs and allowing them to separate. This reverse flow, combined with the grooved design of the discs, causes them to spin and effectively flushes the accumulated particles from their surfaces out through the drainage line.

WORKING PRINCIPLE

Water enters the filter and passes through the disc stack. During operation, contaminants accumulate on the outer surface of the discs. This buildup obstructs the water flow, creating a pressure differential between the filter's inlet and outlet. When this pressure differential reaches a threshold of 0.7 bar, a cleaning cycle is required, which can be initiated either manually or automatically.

Technical Specifications

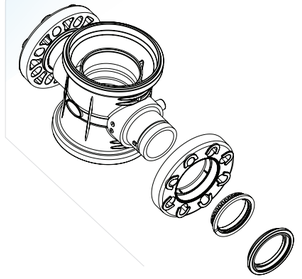
CODE	D		M	T	D1	H	K	Flow Rate		Filtration Area	Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	cm²	kg
DDSC3	3	80	1/4	3/4	190	1216	365	40	176	3100	16,5
DDSC4	4	100	1/4	3/4	190	1216	365	50	220	3100	16,8
DDSC6	6	150	1/4	2	242	1658	462	150	660	5680	33

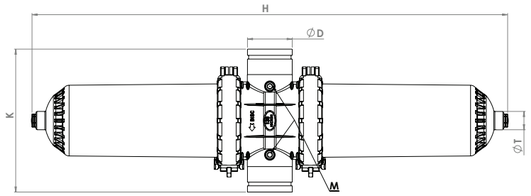


Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Flanged





Mini Hurricanefilt

TM-A

PLASTIC **FILTERS**

Maximum Performance.
Minimal Space.

Designed for superior efficiency in tight spaces, the Aytok Hurricane Mini features our dynamic vortex technology. This system creates a continuous spiral flow that actively keeps the screen clean during filtration, ensuring consistent performance with less maintenance. It's the perfect, robust solution for low-flow applications like garden irrigation, fertigation, and protecting small-scale cooling equipment.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L,PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 80, 100, 130, 200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

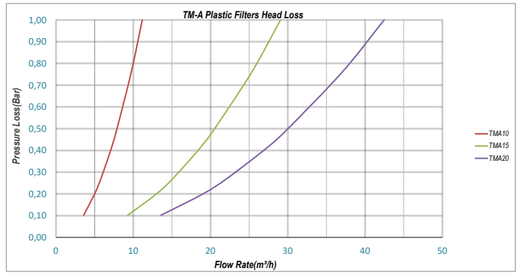
In fully automatic systems, a control unit manages the process by opening the valve and initiating backwash based on one of two user-defined settings: either when the pressure differential between the filter's inlet and outlet reaches a preset threshold, or after a preset time interval has elapsed, whichever occurs first.

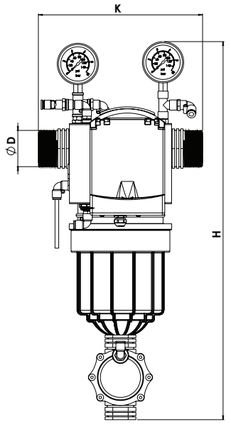
WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
TMA10	1	25	620	338	5-7	22-30	515	Automatic	5,8
TMA15	1 1/2	40	620	388	8-17	35-75	515	Automatic	5,8
TMA20	2	50	620	270	18-25	79-123	515	Automatic	5,6





Mini Hurricanefilt

TM-SA

PLASTIC **FILTERS**

Drip & Micro Irrigation | Greenhouse Irrigation | Landscape Irrigation | Pivot Irrigation | Municipal & Drinking Water Pre-Filtration | Wastewater & Recycling

Maximum Performance. Minimal Space.

Designed for superior efficiency in tight spaces, the Aytok Hurricane Mini features our dynamic vortex technology. This system creates a continuous spiral flow that actively keeps the screen clean during filtration, ensuring consistent performance with less maintenance. It's the perfect, robust solution for low-flow applications like garden irrigation, fertigation, and protecting small-scale cooling equipment.

TM-SA

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L,PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic
- Filtration Sensitivity : 80, 100, 130, 200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

In fully automatic systems, a control unit manages the process by opening the valve and initiating backwash based on one of two user-defined settings: either when the pressure differential between the filter's inlet and outlet reaches a preset threshold, or after a preset time interval has elapsed, whichever occurs first.

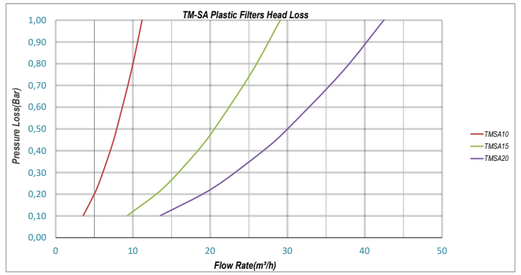
In semi-automatic systems, the process is manual, where the operator monitors the pressure gauges at the inlet and outlet and, upon observing an increased pressure differential, manually opens the valve to discharge the accumulated contaminants.

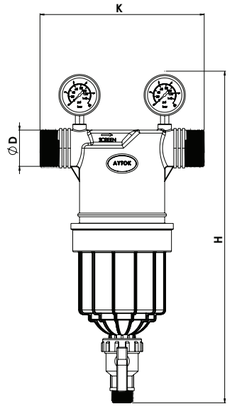
WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
TMSA10	1	25	540	338	5-7	22-30	515	Semi-Automatic	4,2
TMSA15	1 1/2	40	540	388	8-17	35-75	515	Semi-Automatic	4,2
TMSA20	2	50	540	270	18-25	79-123	515	Semi-Automatic	4





Hurricanefilt T Model

HP-A

PLASTIC **FILTERS**

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

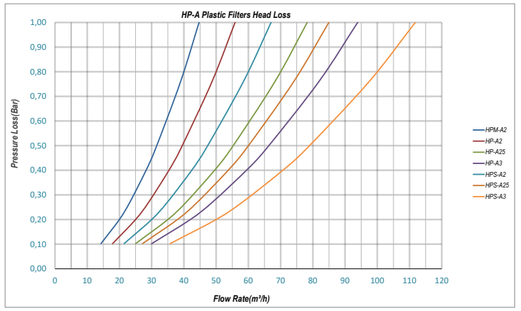
In fully automatic systems, a control unit manages the process by opening the valve and initiating backwash based on one of two user-defined settings: either when the pressure differential between the filter's inlet and outlet reaches a preset threshold, or after a preset time interval has elapsed, whichever occurs first.

WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

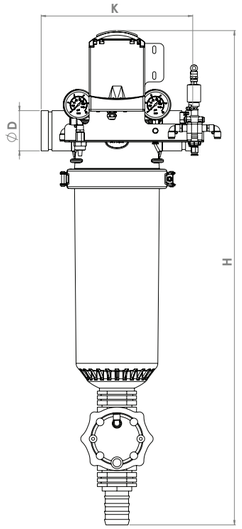
CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
HPM-A2	2	50	800	335	18-25	79-110	760	Automatic	8,2
HP-A2	2	50	915	335	20-25	88-110	1140	Automatic	8,8
HP-A25	2 1/2	65	915	335	25-35	110-154	1140	Automatic	8,9
HP-A3	3	80	915	335	30-40	132-176	1140	Automatic	9
HPS-A2	2	50	1030	335	25-35	110-154	1520	Automatic	9,5
HPS-A25	2 1/2	65	1030	335	25-40	110-176	1520	Automatic	9,6
HPS-A3	3	80	1030	335	30-50	132-220	1520	Automatic	9,7



Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Optionally 3" Flanged



Hurricanefilt T Model

HP-SA

PLASTIC **FILTERS**

Vortex-Powered Filtration.

Forget constant clogging and performance drops. The Aytok Hurricanefilt revolutionizes screen filtration with its dynamic vortex technology. Its powerful spiral flow continuously scours the screen, preventing particle buildup and ensuring consistent performance. The result: dramatically fewer backwash cycles, which significantly reduces both wastewater and maintenance costs, while ensuring a faster, more effective flush. It's smarter filtration that works tirelessly, so you don't have to.

HP-SA

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic Control
- Filtration Sensitivity : 20-200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

In fully automatic systems, a control unit manages the process by opening the valve and initiating backwash based on one of two user-defined settings: either when the pressure differential between the filter's inlet and outlet reaches a preset threshold, or after a preset time interval has elapsed, whichever occurs first.

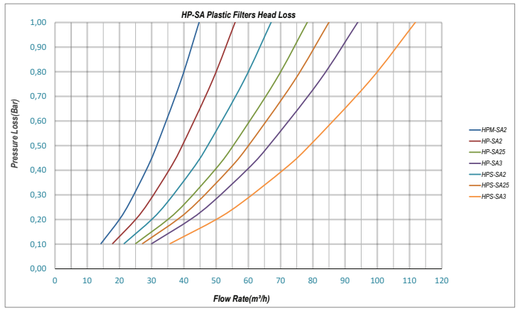
In semi-automatic systems, the process is manual, where the operator monitors the pressure gauges at the inlet and outlet and, upon observing an increased pressure differential, manually opens the valve to discharge the accumulated contaminants.

WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

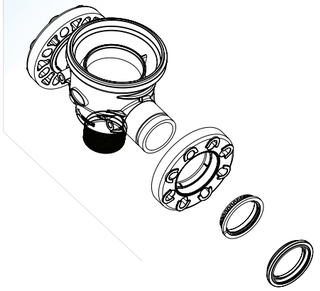
CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
HPM-SA2	2	50	765	335	18-25	79-110	760	Semi-Automatic	6,8
HP-SA2	2	50	880	335	20-25	88-110	1140	Semi-Automatic	7,4
HP-SA25	2 1/2	65	880	335	25-35	110-154	1140	Semi-Automatic	7,5
HP-SA3	3	80	880	335	30-40	132-176	1140	Semi-Automatic	7,6
HPS-SA2	2	50	1000	335	25-35	110-154	1520	Semi-Automatic	8
HPS-SA25	2 1/2	65	1000	335	25-40	110-176	1520	Semi-Automatic	8,1
HPS-SA3	3	80	1000	335	30-50	132-220	1520	Semi-Automatic	8,2

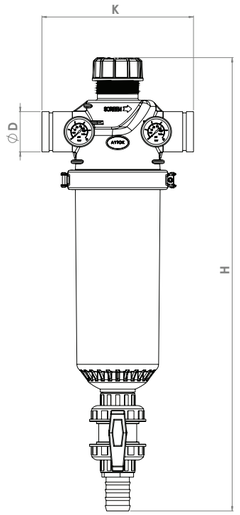


Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Optionally 3" Flanged





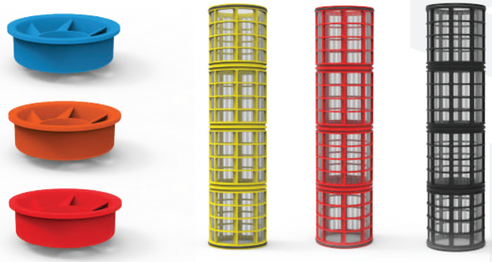
Double Hurricanefilt

HD-A

PLASTIC **FILTERS**

Dual Vortex Power.
Unmatched Capacity.

The Aytok Double Hurricanefilt is engineered to conquer the most demanding filtration challenges. Its dual-body design unleashes two powerful spiral flows working in tandem to continuously scour the screens, delivering maximum flow capacity with minimal backwashing. This powerful combination directly slashes wastewater and operational costs, while ensuring a fast, effective flush. It's the pinnacle of our vortex technology, engineered for your biggest



BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

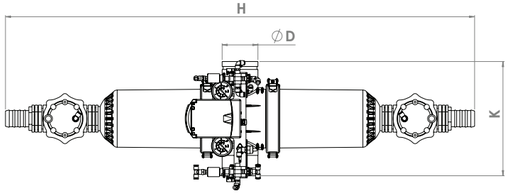
In fully automatic systems, a control unit manages the process by opening the valve and initiating backwash based on one of two user-defined settings: either when the pressure differential between the filter's inlet and outlet reaches a preset threshold, or after a preset time interval has elapsed, whichever occurs first.

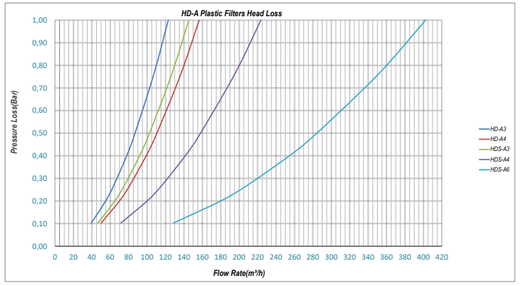
WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
HD-A3	3	80	1500	365	40-55	176-242	2280	Automatic	13,9
HD-A4	4	100	1500	365	55-70	242-308	2280	Automatic	14
HDS-A3	3	80	1740	365	40-65	176-286	3040	Automatic	15,3
HDS-A4	4	100	1740	365	55-100	242-440	3040	Automatic	15,4
HD-A6	6	150	2190	462	90-180	396-792	5532	Automatic	28

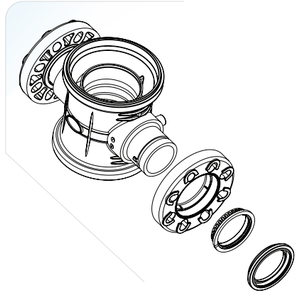




Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Flanged



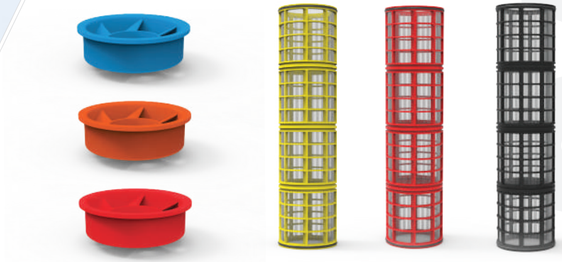
Double Hurricanefilt

HD-SA

PLASTIC **FILTERS**

Dual Vortex Power.
Unmatched Capacity.

The Aytok Double Hurricanefilt is engineered to conquer the most demanding filtration challenges. Its dual-body design unleashes two powerful spiral flows working in tandem to continuously scour the screens, delivering maximum flow capacity with minimal backwashing. This powerful combination directly slashes wastewater and operational costs, while ensuring a fast, effective flush. It's the pinnacle of our vortex technology, engineered for your biggest



HD-SA

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Semi Automatic Control
- Filtration Sensitivity : 20-200 µ (micron)

CLEANING PROCESS

Contaminants suspended at the center of the screen by the water's continuous circular motion are expelled through a discharge valve during the backwash cycle. The initiation of this cycle depends on the filter's configuration.

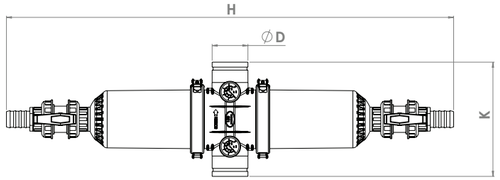
In semi-automatic systems, the process is manual, where the operator monitors the pressure gauges at the inlet and outlet and, upon observing an increased pressure differential, manually opens the valve to discharge the accumulated contaminants.

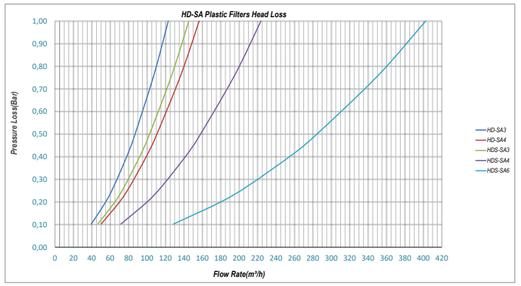
WORKING PRINCIPLE

The operating principle of Hurricane Filters is based on cyclonic separation. As water enters the filter, it is guided by internal helix blades that induce a powerful circular motion, or vortex. This cyclonic action generates a centrifugal force that serves two purposes: it prevents contaminants from accumulating on the screen surface, thereby minimizing clogging, and it directs the suspended particles toward the center of the filter for collection.

Technical Specifications

CODE	D		H	K	Flow Rate		Filtration Area	Flushing Type	Weight
	Inch	DN	mm	mm	m³/h	GPM(US)	cm²		kg
HD-SA3	3	80	1430	365	40-55	176-242	2280	Semi-Automatic	11,8
HD-SA4	4	100	1430	365	55-70	242-308	2280	Semi-Automatic	11,9
HDS-SA3	3	80	1670	365	40-65	176-286	3040	Semi-Automatic	13
HDS-SA4	4	100	1670	365	55-100	242-440	3040	Semi-Automatic	13,1
HD-SA6	6	150	2115	462	90-180	396-792	5532	Semi-Automatic	25,9

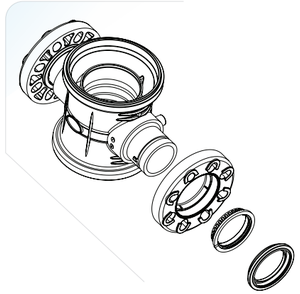




Metal Clamp

Plastic Clamp

Connection Type:
Victaulic/Threaded/Flanged



Plastic
Hydrocyclone Filter

P20

PLASTIC **FILTERS**

The Sand Problem, Solved.

Abrasive sand and silt are the silent killers of filtration systems; the Aytok hydrocyclone is the definitive solution. It uses centrifugal force to eject heavy, damaging particles—with no screens to clean, no moving parts to fail, and no power required. This is where Aytok's engineering excels: its ultra-smooth inner surface captures even finer particles, while an optimized vortex design drops them into the collection tank with maximum speed and efficiency. By removing the heaviest load from the start, it drastically reduces wear on your main filters, saving you time, money, and maintenance. Its robust, corrosion-free plastic construction ensures a lifetime of reliable protection, making it the smartest investment for your system's health.

P20

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Maximum Working Pressure : 6 bar ; 87 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Minimum Flow Rate : P2010: 3 m³/h
  P2020: 15 m³/h
  P2025: 20 m³/h
  P2030: 25 m³/h

CLEANING PROCESS

During filtration, solid particles accumulate in the collection tank at the bottom. This tank is periodically purged through a discharge valve. The valve's operation can be either manual, requiring user intervention, or fully automatic, triggered by a controller.

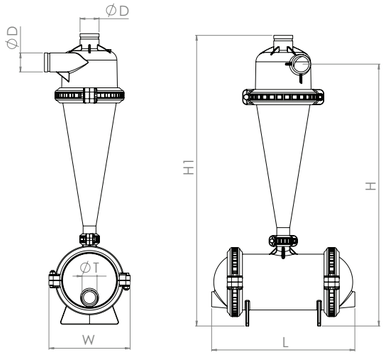
WORKING PRINCIPLE

Hydrocyclone filters separate suspended solids from liquids using the principle of centrifugal force, with no moving parts or filter media. When the water mixture enters the hydrocyclone's conical body at a high-speed, tangential angle, it creates a powerful swirling vortex.

This rapid rotation throws heavier particles like sand and silt to the outer wall, where they spiral down to be collected in a separation tank at the bottom. Meanwhile, the cleaner, lighter water is drawn up through the center of the vortex and exits through the top outlet, ready for use.

Technical Specifications

CODE	D		T	H	H1	L	W	Flow Rate		Weight
	Inch	DN	Inch	Inch	mm	mm	mm	m³/h	GPM(US)	kg
P2010	1	25	1/2	390	448	255	113	5-10	22-44	1,9
P2020	2	50	3/4	1025	1154	580	206	20-30	88-132	9,5
P2025	2 1/2	65	3/4	1025	1154	580	206	30-40	132-176	9,5
P2030	3	80	2	1225	1360	670	322	40-60	176-264	19



Plastic
Media Filter (Gravel)

P30

PLASTIC **FILTERS**

The Ultimate Defense Against Contaminated Water.

The Aytok Media Filter is the ultimate defense against challenging water sources rich with organic matter, algae, and fine particulates. Its deep-bed filtration technology provides unparalleled purification by trapping the stubborn contaminants that other filters miss, protecting sensitive equipment across both agricultural and industrial applications. This maximizes efficiency and minimizes downtime. Engineered with a durable, non-corrosive structure and flexible manual or automatic backwash options, it is the professional's choice for mastering the most difficult water conditions.

P30

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Maximum Working Pressure : 6 bar ; 87 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Sand Capacity : 200 kg

CLEANING PROCESS

The backwash process cleans the filter by reversing the water flow. Clean water from the rest of the system is directed into the filter's outlet, while simultaneously, the inlet valve closes and the drain valve opens. The upward flow of water expands the sand bed, releasing trapped particles, which are then flushed out through the drain line. This procedure can be performed manually or set to occur automatically. An automatic system requires a minimum of two filters to ensure a continuous supply of clean water for the backwash cycle.

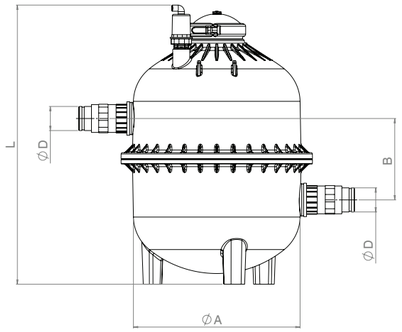
WORKING PRINCIPLE

Sand filters work by passing contaminated water downward through a multi-layered bed of sand. As the water travels through the fine spaces within the sand media, physical and organic particles are captured and removed.

At the bottom of the tank, a network of diffusers collects the purified water and sends it to the outlet, while securely holding the sand media in place. The type and layering of the sand can be specifically selected to match the water quality and achieve the desired filtration level.

Technical Specifications

CODE	A		B		L		D		Flow Rate		Weight	
	Inch	mm	Inch	mm	Inch	mm	Inch	DN	m³/h	GPM(US)	kg	lb
P3020	24	610	12	300	44	1100	2	50	20	88	43	94,8
P3025	24	610	12	300	44	1100	2 1/2	65	25	110	43,2	95,2
P3030	24	610	12	300	44	1100	3	80	30	132	43,5	95,9



Self-Cleaning
Suction Filter

DSF

PLASTIC **FILTERS**

Your Pump's First Line of Defense.

Positioned at the very start of your system, the Aytok suction filter acts as a rugged guardian for your pump. It is designed to handle raw water sources with heavy contaminants like algae, garbage, and sand. By capturing this debris before it can cause damage, it prevents costly failures, minimizes downtime, and ensures the long-term health and efficiency of your entire irrigation infrastructure.

DSF

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PVC-HDPE
- Nozzle Material : POM
- Screen Material : SS304L
- Maximum Vacuum Pressure : 8 bar ; 116 Psi
- Minimum Vacuum Pressure : 3 bar ; 43,5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Control System : Continuous Cleaning
- Filtration Sensitivity : 2000 µ (micron)

CLEANING PROCESS

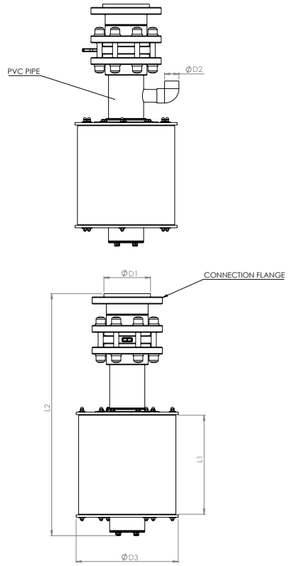
Pressurized water supplied from the auxiliary line is directed through nozzles to drive the circular motion of the screen system. This continuous movement scours the screen surface, effectively removing contaminants as they approach. As a result, the screen surface remains constantly clean, ensuring uninterrupted filtration.

WORKING PRINCIPLE

The DSF Suction Filter operates on the suction side of a pump, providing coarse filtration at 2000 microns to protect the pump from large debris drawn from open water sources. Its key operational feature is a dynamic, continuously moving screen system designed to prevent clogging. This screen mechanism is hydraulically actuated by a dedicated auxiliary line that taps into the pump's pressurized discharge. This auxiliary line is intentionally designed with a smaller diameter than the filter's main connection. This design ensures the necessary pressure and flow velocity are generated to reliably power the screen's continuous movement, allowing for uninterrupted filtration.

Technical Specifications

CODE	D1		D2	D3	L1	L2	Flow Rate		Supply Flow Rate		Weight
	Inch	DN	Inch	mm	mm	mm	m³/h	GPM(US)	L/s	GPM(US)	kg
DSF4	4	100	1	310	305	775	90	396	0,8	12,6	13,8
DSF6	6	150	1 1/2	410	405	990	165	726	1,8	28,5	26
DSF8	8	200	2	510	510	1205	330	1452	3,6	57	44,6



Plastic
Fertilizer Tank

P1000

PLASTIC **FILTERS**

Effortless Fertigation. Enduring Performance.

The Aytok Fertilizer Tank is the proven solution for growers who value simplicity and unwavering reliability. It harnesses your system's natural pressure differential to deliver nutrients effectively, with no moving parts to fail and no power required. A tough, corrosion-resistant coating ensures it withstands the harshest conditions, making it a dependable, long-term investment in your crop's health.

P1000

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Maximum Working Pressure : 6 bar ; 87 Psi
- Maximum Working Temperature : 60 °C ; 140°F

CLEANING PROCESS

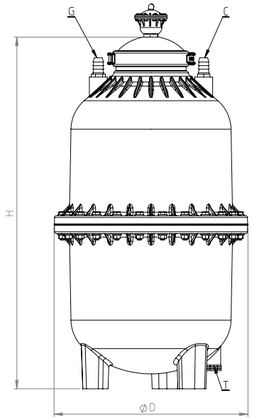
During the cleaning process, the remaining liquid and accumulated residues inside the tank are flushed out efficiently through the valve, ensuring the system is completely cleared and ready for the next operation.

WORKING PRINCIPLE

The fertilizer tank operates based on a pressure differential created by a throttling valve installed between the tank's inlet and outlet lines. To operate the system, the tank is first filled with fertilizer and sealed. Opening only the inlet valve allows high-pressure water to enter and dissolve the fertilizer. After a homogeneous mixture is formed, the outlet valve is opened. The pressure difference then drives the fertilizer solution from the tank into the lower-pressure main line for distribution.

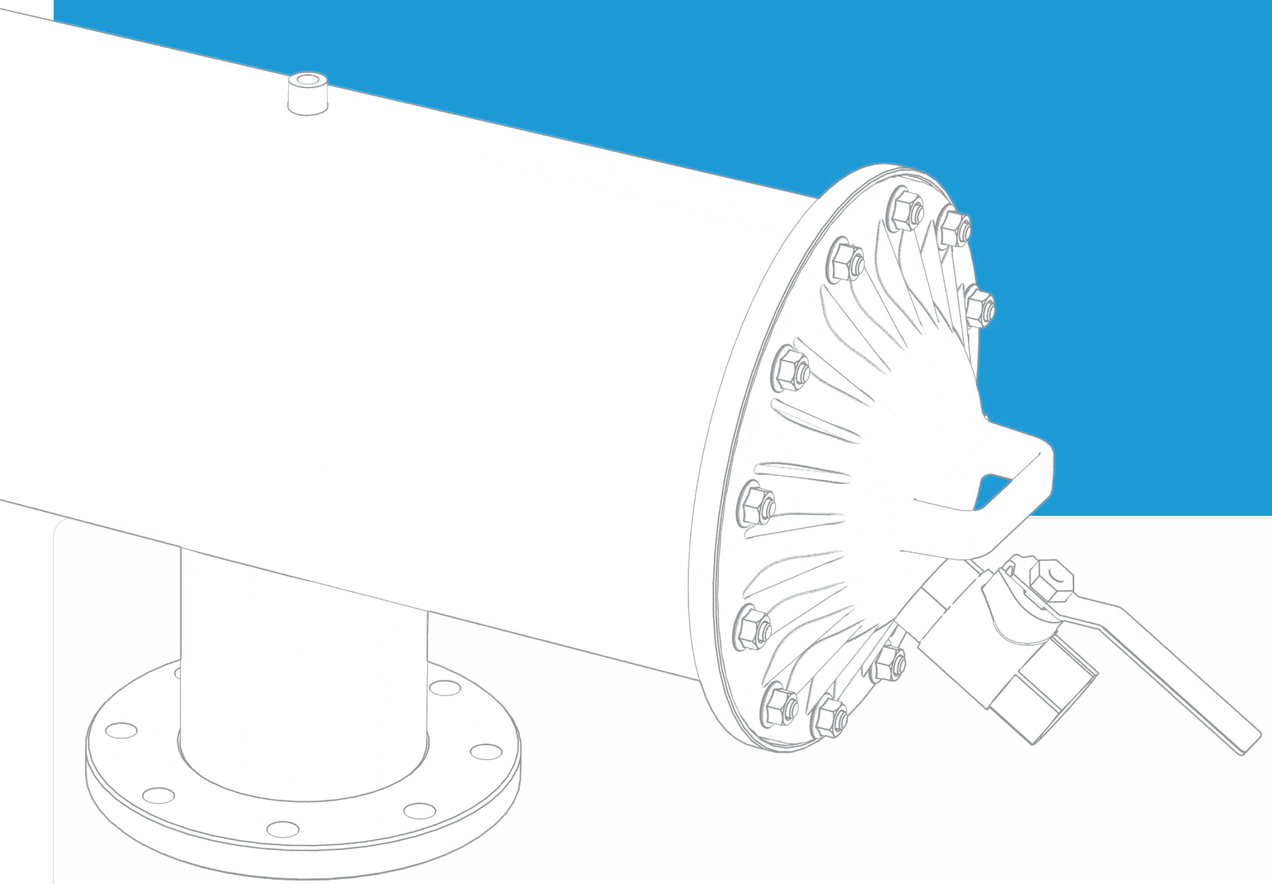
Technical Specifications

CODE	D		G		Ç		T		H		Capacity		Weight
	Inch	mm	Inch	DN	Inch	DN	Inch	DN	Inch	mm	L	Gal(US)	kg
P1100	21	530	1	25	1	25	3/4	20	38,6	980	100	26	24
P1200	28	710	1	25	1	25	3/4	20	42	1065	200	52	36



Artok
water flow systems
BEYOND
Filtration
BEYOND LIMITS

+ PRODUCTS GROUP



METAL
FILTERS

BEYOND
FILTRATION
BEYOND
× LIMITS

Vertical
Metal Disc Filter

LD

METAL **FILTERS**

Reliable Filtration, Ingeniously Engineered.

Our Manual Disc Filter delivers exceptionally consistent performance through a brilliantly simple, motor-free design. It intelligently harnesses the inherent pressure of your liquid flow for effective filtration, ensuring zero energy consumption and minimal maintenance. Customizable with a range of materials, including high-grade stainless steel for industrial challenges, it's the smart choice for sustainable, long-term reliability.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

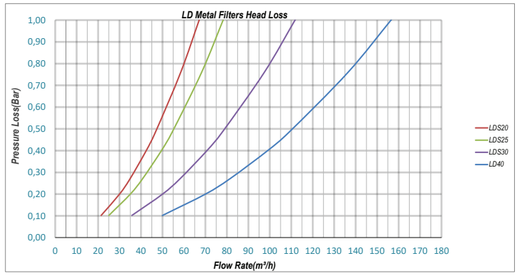
Manual cleaning is required when the pressure differential, monitored by manometers, indicates that the filter is clogged. The process begins by shutting down the system and depressurizing the filter. The cover is then removed and the disc cartridge is extracted. The key to the cleaning principle is loosening the cartridge's compression screw, which separates the discs and exposes their entire surface area. This allows pressurized water to effectively flush away all accumulated contaminants. After cleaning, the cartridge is re-compressed, reinstalled, and the filter is returned to service.

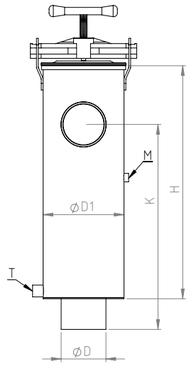
WORKING PRINCIPLE

Water enters the filter and passes through a stack of discs. As it flows toward the outlet, contaminants gradually accumulate on the outer surface of these discs. This buildup creates a pressure difference between the inlet and outlet. To ensure proper performance, the filter must be cleaned by the time the pressure difference reaches 0.7 bar.

Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m^3/h	GPM(US)	kg
LDS20	2	6	1/4	1/2	320	400	30	132	15
LDS25	2 1/2	8	1/4	3/4	320	400	35	154	19
LDS30	3	8	1/4	3/4	455	515	50	220	22
LD40	4	8	1/4	3/4	555	625	70	308	27





Vertical
Metal Screen Filter

LE

METAL **FILTERS**

The Power of Capacity.
The Simplicity of Design.

When your system demands higher flow rates, the LE Manual Screen Filter delivers. Its high-capacity body is engineered to maximize the screen's surface area, enabling significantly greater throughput than standard designs. It maintains the elegant, motor-free principle of our manual series, operating solely on your system's pressure for energy-free, low-maintenance performance. Engineered for durability, this is the definitive solution for your most challenging applications.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR
- Screen Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

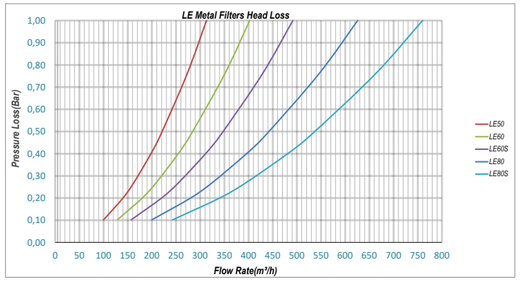
Manual cleaning is required when the pressure differential, monitored by manometers, indicates that the filter is clogged. The process begins by shutting down the system and depressurizing the filter. The cover is then removed and the screen cartridge is extracted. The cleaning principle for a screen filter is direct: the screen is thoroughly cleaned with pressurized water to remove all accumulated debris. After cleaning, the cartridge is reinstalled, and the filter is returned to service.

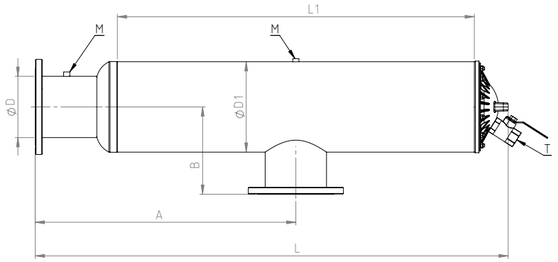
WORKING PRINCIPLE

Water enters the filter and passes through the fine screen. As it flows toward the outlet, contaminants gradually accumulate on the inner surface of the screen. This buildup creates a pressure difference between the inlet and outlet. To ensure proper performance, the filter must be cleaned by the time the pressure difference reaches 0.7 bar.

Technical Specifications

CODE	D	D1	M	T	A	B	L	L1	Flow Rate		Weight
	Inch				mm				m³/h	GPM(US)	kg
LE50	5	10	1/4	1	610	287	1055	640	140	616	46
LE60	6	10	1/4	1	710	287	1255	840	180	792	58
LE60S	6	12	1/4	1	810	287	1455	1040	220	968	68
LE80	8	12	1/4	1	810	287	1455	1040	280	1232	70
LE80S	8	12	1/4	1	930	312	1690	1275	340	1496	88





Metal Y Type
Disc & Screen Filters

YE & YD

METAL **FILTERS**

Efficient Filtration in a Strong Y-Frame.

Built on a durable metal Y-body, our Manual Disc/Screen Filter combines strength and versatility in one streamlined design. Engineered for reliability under pressure, it offers adaptable filtration through both disc and screen elements—ideal for diverse water conditions. With no motors, no energy use, and minimal maintenance, this robust filter turns simplicity into lasting performance. When efficiency meets endurance, the Y-body stands its ground.

YE&YD

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION - YE**

- Body Material : S235JR
- Screen Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20-2000 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

GENERAL **SPECIFICATION - YD**

- Body Material : S235JR
- Cartridge Material : PP
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

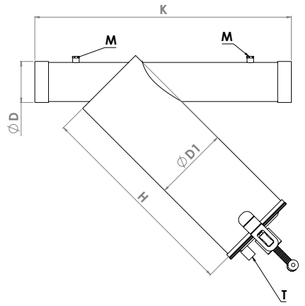
CLEANING PROCESS

Manual cleaning is required when the pressure differential, monitored via manometers, indicates the filter is clogged. The process begins by shutting down the system and depressurizing the filter. The cover is then removed, and the filter cartridge is extracted.

The cleaning method depends on the filter type. A screen filter is cleaned by directly washing the screen with pressurized water. For a disc filter, the compression screw on the cartridge is loosened to separate the discs, allowing pressurized water to effectively clean their surfaces. After cleaning, the cartridge is reassembled and reinstalled, and the filter is returned to service.

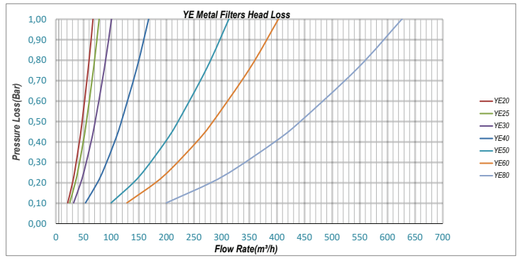
WORKING PRINCIPLE

The filter operates by passing water through a filtration element, which can be either a fine screen or a stack of discs. During operation, contaminants accumulate on the surface of this element—the inner surface in the case of a screen, or the outer surface for discs. This buildup obstructs the flow, creating a pressure differential between the filter's inlet and outlet. To ensure proper performance, the filter must be cleaned by the time the pressure difference reaches 0.7 bar.



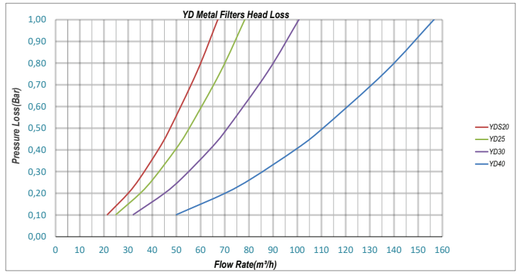
YE - Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m³/h	GPM(US)	kg
YE20	2	6	1/4	1/2	515	240	30	132	12
YE25	2 1/2	6	1/4	1/2	570	360	35	154	14,6
YE30	3	6	1/4	1/2	570	480	45	198	18
YE40	4	8	1/4	1/2	670	605	75	330	28
YE50	5	10	1/4	1	900	700	140	616	51
YE60	6	10	1/4	1	1100	1000	180	792	88
YE80	8	12	1/4	1	1200	1200	280	1232	115



YD - Technical Specifications

CODE	D	D1	M	T	K	H	Flow Rate		Weight
	Inch				mm		m³/h	GPM(US)	kg
YDS20	2	6	1/4	1/2	520	400	30	132	16
YD25	2 1/2	8	1/4	3/4	590	400	35	154	20
YD30	3	8	1/4	3/4	590	515	45	198	24
YD40	4	8	1/4	3/4	670	625	70	308	29



Metal
Hydrocyclone Filter

20

METAL **FILTERS**

Your Heavy-Duty Answer to Abrasive Sand.

The Aytok Metal Hydrocyclone uses pure centrifugal force to powerfully eject sand and heavy particles before they can erode your system. With no screens, no moving parts, and zero power needed, it's the most effective way to protect your main filters and reduce maintenance. Its specially treated, reinforced metal body is engineered to withstand high pressures and demanding field conditions, delivering steadfast protection where it's needed most.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : S235JR
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester
- Minimum Flow Rate : 2020: 20 m^3/h
  2025: 30 m^3/h
  2030: 40 m^3/h
  2040: 50 m^3/h
  2040S: 75 m^3/h
  2050: 100 m^3/h
  2060: 150 m^3/h

CLEANING PROCESS

During filtration, solid particles accumulate in the collection tank at the bottom. This tank is periodically purged through a discharge valve. The valve's operation can be either manual, requiring user intervention, or fully automatic, triggered by a controller.

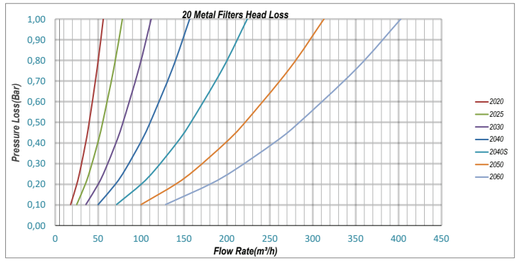
WORKING PRINCIPLE

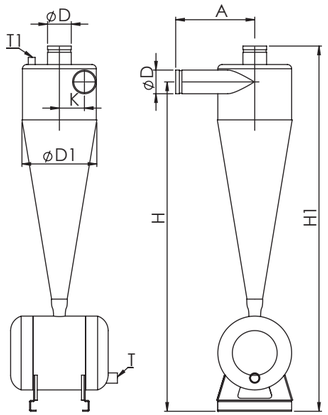
Hydrocyclone filters separate suspended solids from liquids using the principle of centrifugal force, with no moving parts or filter media. When the water mixture enters the hydrocyclone's conical body at a high-speed, tangential angle, it creates a powerful swirling vortex.

This rapid rotation throws heavier particles like sand and silt to the outer wall, where they spiral down to be collected in a separation tank at the bottom. Meanwhile, the cleaner, lighter water is drawn up through the center of the vortex and exits through the top outlet, ready for use.

Technical Specifications

CODE	D	D1	T	T1	K	A	H	H1	Flow Rate		Weight
	Inch				mm				m^3/h	GPM(US)	kg
2020	2	11	3/4	1/2	110	250	1185	1305	25	110	25
2025	2 1/2	11	1	1/2	102	300	1255	1385	35	154	27
2030	3	11	1	1/2	95	300	1250	1385	50	220	28
2040	4	11	1	1/2	82,5	300	1235	1385	70	308	30
2040S	4	13	2	3/4	102,5	350	1280	1430	100	440	35
2050	5	15	2	1	120	400	1520	1745	120-140	528-616	65
2060	6	18	2	1	142,5	450	1750	2035	160-200	704-880	92





Metal
Media (Gravel) Filter

30

METAL **FILTERS**

Mastering the Most Demanding Water.

Engineered with a specially coated steel vessel for superior corrosion resistance, our Metal Media Filter provides the ultimate foundation for deep-bed filtration. Tailor your solution with a precise combination of media (sand, basalt, anthracite, etc.) to capture stubborn algae, organic matter, and fine particulates. Fully configurable for either straightforward manual control or intelligent automatic backwash, it adapts to your exact operational needs for uncompromising performance.

+

Filter Internals

Mushroom

Diffuser

GENERAL **SPECIFICATION**

- Body Material : S235JR
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140F
- Filtration Method : Diffuser or Mushroom
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

GENERAL **SPECIFICATION**

- Body Material : S235JR
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140F
- Filtration Method : Diffuser
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

The backwash process cleans the filter by reversing the water flow. Clean water from the rest of the system is directed into the filter's outlet, while simultaneously, the inlet valve closes and the drain valve opens. The upward flow of water expands the sand bed, releasing trapped particles, which are then flushed out through the drain line. This procedure can be performed manually or set to occur automatically. An automatic system requires a minimum of two filters to ensure a continuous supply of clean water for the backwash cycle.

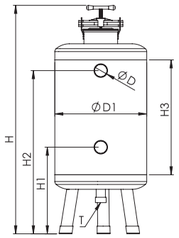
WORKING PRINCIPLE

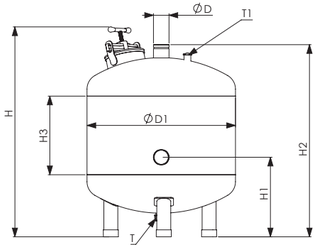
Sand filters work by passing contaminated water downward through a multi-layered bed of sand. As the water travels through the fine spaces within the sand media, physical and organic particles are captured and removed.

At the bottom of the tank, a network of diffusers or mushrooms collects the purified water and sends it to the outlet, while securely holding the sand media in place. The type and layering of the sand can be specifically selected to match the water quality and achieve the desired filtration level.

Technical Specifications

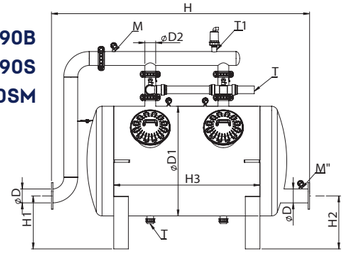
CODE	D	D1	T	T1	H	H1	H2	H3	Flow Rate		Weight
	Inch				mm				m³/h	GPM(US)	kg
3020	2	18	3/4	-	1250	400	900	700	15	66	52
3025	2 1/2	24	2	-	1450	560	1060	750	20	88	77
3030	3	24	2	-	1450	560	1060	750	24	105,6	82
3040	4	24	2	-	1700	560	1260	1000	28	123,2	94
3050	3	32	2	1	1195	420	1100	540	45	198	115
3060	3	36	2	1	1195	420	1100	500	50	220	132
3070	4	36	2	1	1195	420	1100	500	55	242	140
3080	4	48	2	1	1185	520	1100	500	80	352	250



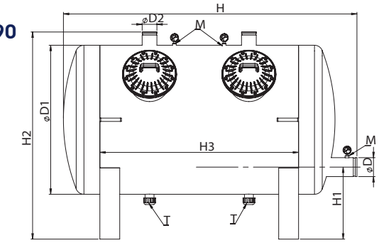


Filter Code	Sand Capacity for Mushroom (kg)	Sand Capacity for Diffuser (kg)
3020	150	-------
3025	200	250
3030	200	250
3040	200	250
3050	300	350
3060	350	400
3070	350	400
3080	400	500
3090	-	800

3090B
3090S
3090SM



3090



CODE	D	D1	D2	T1	H	H1	H2	H3	Flow Rate		Weight
	Inch				mm				m³/h	GPM(US)	kg
3090	4	36	3	-	1800	410	1250	1200	70-90	308-396	285
3090B	4	36	3	1	2120	410	410	1200	70-90	308-396	320
3090S	4	36	3	1	2780	410	410	1200	70-90	308-396	340
3090SM	4	36	3	1	3000	410	410	1200	70-90	308-396	360

Metal
Fertilizer Tanks

10V & 10H

METAL **FILTERS**

Uncompromising Fertigation. Unmatched Durability.

The Aytok Metal Fertilizer Tank is the rugged choice for reliable nutrient delivery. It uses a simple pressure differential for effective, powerless fertigation, free of any moving parts. Its robust, specially coated steel construction is built to endure high pressure and physical stress, making it the definitive investment for long-term performance in the field.

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION - 10V**

- Body Material : S235JR
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

GENERAL **SPECIFICATION - 10H**

- Body Material : S235JR
- Maximum Working Pressure : 8 bar ; 116 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Painting Method : Electrostatic Powder Coating
- Paint Coating Material : Epoxy-Polyester

CLEANING PROCESS

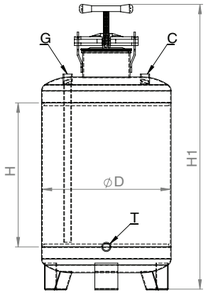
During the cleaning process, the remaining liquid and accumulated residues inside the tank are flushed out efficiently through the valve, ensuring the system is completely cleared and ready fo

WORKING PRINCIPLE

The fertilizer tank operates based on a pressure differential created by a throttling valve installed between the tank's inlet and outlet lines. To operate the system, the tank is first filled with fertilizer and sealed. Opening only the inlet valve allows high-pressure water to enter and dissolve the fertilizer. After a homogeneous mixture is formed, the outlet valve is opened. The pressure difference then drives the fertilizer solution from the tank into the lower-pressure main line for distribution.

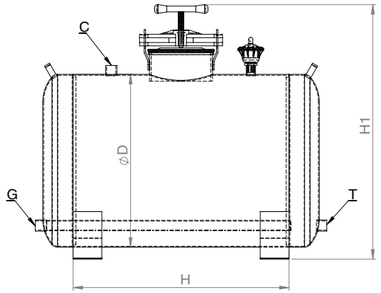
10V - Technical Specifications

CODE	D	G	C	T	H	H1	Capacity		Weight
	Inch				mm		L	Gal(US)	kg
1060V	15	1/2	1/2	1/2	330	790	60	16	20
1100V	18	3/4	3/4	3/4	500	960	100	26	30
1200V	24	1	1	1	600	1060	200	52	56



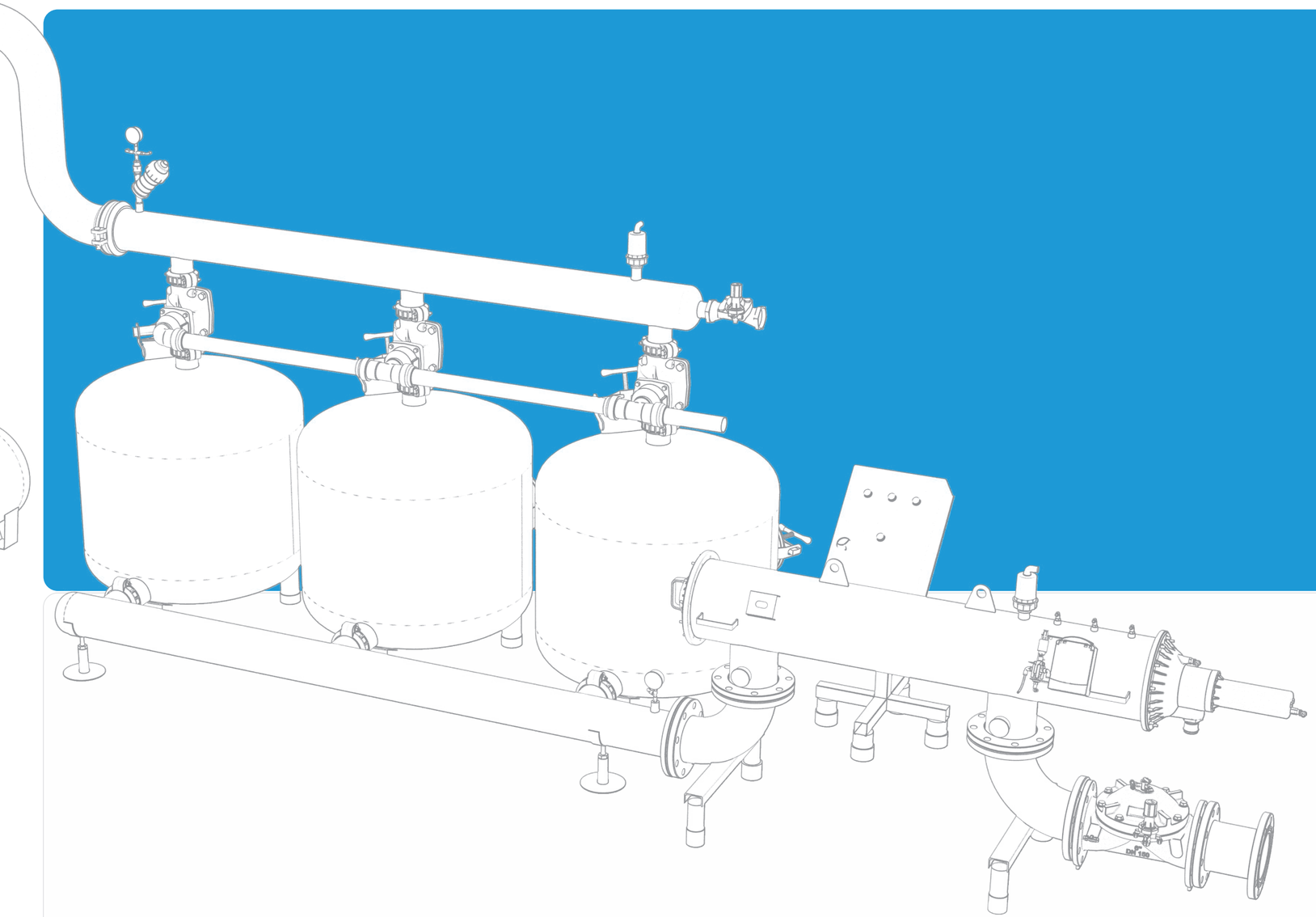
10H Technical Specifications

CODE	D	G	C	T	H	H1	Capacity		Weight
	Inch				mm		L	Gal(US)	kg
1100H	18	3/4	3/4	3/4	500	740	100	26	33
1200H	24	1	1	1	600	860	200	52	59
1300H	24	1	1	1	750	860	300	78	66
1350H	24	1	1	1	1000	860	350	91	82
1500H	24	1	1	1	1500	860	500	130	108



BEYOND
Filtration
BEYOND LIMITS

+ PRODUCTS GROUP



FILTRATION **SYSTEMS**

BEYOND
FILTRATION
BEYOND
× LIMITS

Control **Panels**

FLUSHCORE CONTROL PANEL

ADVANTAGES OF FLUSHCORE

Intelligent Backflushing: Dual-mode triggers (Pressure & Time) ensure cleaning only when necessary, saving water and energy in any application.

Scalable Control (Out-of-the-Box): Control up to 10 filter stations immediately with a single unit—no extra modules or expansion cards required. This simplifies installation and reduces initial costs.

Centralized Command: Consolidate the control of your entire filter bank into a single, compact, and user-friendly panel.

Universal Integration: Designed for seamless connection with control systems like SCADA.

Versatile Power Compatibility (AC/DC): Offers ultimate installation flexibility. Flushcore operates seamlessly on both standard AC grid power and low-voltage DC sources, making it the perfect solution for any site, regardless of the available power infrastructure.

Reduced Operational Costs: Drastically cut maintenance labor, extend the life of your filter media, and improve overall system efficiency.

Robust & Reliable: Features a durable design built to withstand demanding environments, from the factory floor to the open field.

Flushcore: Stop Managing Your Filtration. Start Mastering It.

Engineered for the demands of modern industry and precision agriculture, Flushcore is the intelligent heart that elevates your entire filtration system. It replaces complexity and inefficiency with automated precision, ensuring flawless performance and unlocking significant savings in water, energy, and maintenance.

WORKING PRINCIPLE

The Flushcore operates on a dual-trigger principle to provide intelligent and efficient filter backwashing. It automatically initiates a cleaning cycle based on whichever of two user-set conditions occurs first: a specific pressure differential or a pre-defined time interval.

All settings, including the pressure threshold, time interval, and flush duration, are easily configured via a user-friendly interface. A manual backwash function provides operators with on-demand cleaning capability, ensuring complete control over the filtration system.

BEYOND FILTRATION BEYOND LIMITS ×

HURRICANEFILT SINGLE FILTER SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	D		Flow Rate		Filtration Area
	Inch	DN	m³/h	GPM(US)	cm²
1XHPM-A2	2	50	18-25	79-110	760
1XHPM-SA2					
1XHP-A2	2	50	20-25	88-110	1140
1XHP-SA2					
1XHPS-A2	2	50	25-35	110-154	1520
1XHPS-SA2					
1XHP-A25	2 1/2	65	25-35	110-154	1140
1XHP-SA25					
1XHPS-A25	2 1/2	65	25-40	110-176	1520
1XHPS-SA25					
1XHP-A3	3	80	30-40	132-176	1140
1XHP-SA3					
1XHPS-A3	3	80	30-50	132-220	1520
1XHPS-SA3					
1XHD-A3	3	80	40-55	176-242	2280
1XHD-SA3					
1XHDS-A3	3	80	40-65	176-286	3040
1XHDS-SA3					
1XHD-A4	4	100	55-70	242-308	2280
1XHD-SA4					
1XHDS-A4	4	100	55-100	242-440	3040
1XHDS-SA4					
1XHD-A6	6	150	90-180	396-792	5532
1XHD-SA6					

GENERAL **SPECIFICATION**

- Filter Body Material : PA6GFR30
- Screen Material : SS304L,PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual, Electronic (AC/DC)
- Filtration Sensitivity : 20-200 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

PLASTIC MANUAL DISC FILTER SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
M222	2"2X2"PLASTIC DISC FILTER SYSTEM	10-30	44-132
M323	3"2X3"PLASTIC DISC FILTER SYSTEM	30-50	132-220
M433	4"3X3"PLASTIC DISC FILTER SYSTEM	50-70	220-308
M443	4"4X3"PLASTIC DISC FILTER SYSTEM	70-100	308-440

GENERAL **SPECIFICATION**

- Plastic Filter Type : Manual Disc(PSD), Self Clean Disc(PSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : PSD: 1 bar ; 14.5 Psi, PSC: 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

MULTIPLE HURRICANEFILT SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	D		Flow Rate		Filtration Area
	Inch	DN	m³/h	GPM(US)	cm²
2XHD-A4	5	125	110-150	484-660	4560
2XHD-SA4					
2XHDS-A4	6	150	110-180	484-792	6080
2XHDS-SA4					
3XHD-A4	8	200	180-270	792-1188	6840
3XHD-SA4					
2XHD-A6	8	200	240-360	1056-1585	11060
2XHD-SA4					
3XHD-A6	10	250	360-540	1585-2377	16590
3XHD-SA6					

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Filter Body Material : PA6GFR30
- Screen Material : SS304L,PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual, Electronic (AC/DC)
- Filtration Sensitivity : 20-200 µ (micron)

PLASTIC MANUAL DOUBLE DISC FILTER SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
M534	5"3x4"DOUBLE PLASTIC DISC FILTER SYSTEM	100-130	440-572
M644	6"4x4"DOUBLE PLASTIC DISC FILTER SYSTEM	130-200	572-880
M836	8"3x6"DOUBLE PLASTIC DISC FILTER SYSTEM	200-280	880-1232
M846	8"4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	280-330	1232-1452
M1046	10"4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	330-380	1452-1672
M1056	10"5x6"DOUBLE PLASTIC DISC FILTER SYSTEM	380-480	1672-2112
M1066	10"6x6"DOUBLE PLASTIC DISC FILTER SYSTEM	480-570	2112-2508
M1276	12"7x6"DOUBLE PLASTIC DISC FILTER SYSTEM	570-670	2508-2948

GENERAL **SPECIFICATION**

- Plastic Filter Type : Manual Disc(DDS), Self Clean Disc(DDSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : DDS: 1 bar ; 14.5 Psi, DDSC: 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual
- Filtration Sensitivity (M534 and M644) : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity (Others) : 130 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

PLASTIC MANUAL DISC FILTER SYSTEMS WITH HYDROCYCLONE

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
P7009	2" PLASTIC FILTER WITH 2" HYDROCYCLONE	20-30	88-132
P7010	2,5" PLASTIC FILTER WITH 2,5" HYDROCYCLONE	30-40	132-176
P7011	3" PLASTIC FILTER WITH 3" HYDROCYCLONE	40-50	176-220
P7011D	3" DOUBLE PLASTIC FILTER WITH 3" HYDROCYCLONE	50-60	220-264
P7012	4" DOUBLE PLASTIC FILTER WITH 2X2,5 HYDROCYCLONE	50-70	220-308

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Manual Disc(PSD), Vacuum Cleaning Screen(PVS)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Screen Material : SS304L,PA6GFR30
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual
- Filtration Sensitivity (PSD) 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity (PVS) 20-2000 µ (micron)

PLASTIC MANUAL DOUBLE DISC FILTER SYSTEM WITH HYDROCYCLONE

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
3xP2030+M534	5"3X3"PLASTIC HYDROCYCLONE 3x4"DOUBLE PLASTIC DISC FILTER SYSTEM	100-130	440-572
4xP2030+M644	6"4X3"PLASTIC HYDROCYCLONE 4x4"DOUBLE PLASTIC DISC FILTER SYSTEM	130-200	572-880
5xP2030+M836	8"5X3"PLASTIC HYDROCYCLONE 3X6"DOUBLE PLASTIC DISC FILTER SYSTEM	200-280	880-1232
6xP2030+M846	8"6X3"PLASTIC HYDROCYCLONE 4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	280-330	1232-1452
7xP2030+M1046	10"7X3"PLASTIC HYDROCYCLONE 4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	330-380	1452-1672
9xP2030+M1056	10"9X3"PLASTIC HYDROCYCLONE 5x6"DOUBLE PLASTIC DISC FILTER SYSTEM	380-480	1672-2112
10xP2030+M1066	10"10X3"PLASTIC HYDROCYCLONE 6x6"DOUBLE PLASTIC DISC FILTER SYSTEM	480-570	2112-2508
12xP2030+M1276	12"12X3"PLASTIC HYDROCYCLONE 7x6"DOUBLE PLASTIC DISC FILTER SYSTEM	570-670	2508-2948

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Manual Disc(DDS), Self Clean Disc(DDSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : DDS: 1 bar ; 14.5 Psi, DDSC: 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual
- Filtration Sensitivity (3xP2030+M534 and 4xP2030+M644) : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity (Others) : 130 µ (micron)

SINGLE PLASTIC FILTER WITH HYDROCYCLONE

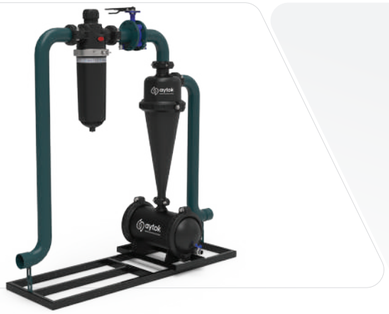
FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
P7009	2" PLASTIC FILTER WITH 2" HYDROCYCLONE	20-30	88-132
P7010	2,5" PLASTIC FILTER WITH 2,5" HYDROCYCLONE	30-40	132-176
P7011	3" PLASTIC FILTER WITH 3" HYDROCYCLONE	40-50	176-220
P7011D	3" DOUBLE PLASTIC FILTER WITH 3" HYDROCYCLONE	50-60	220-264
P7012	4" DOUBLE PLASTIC FILTER WITH 2X2,5 HYDROCYCLONE	50-70	220-308

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester



GENERAL **SPECIFICATION**

- Plastic Filter Type : Manual Disc(PSD), Vacuum Cleaning Screen(PVS)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Screen Material : SS304L,PA6GFR30
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Difference
- Control System : Manual
- Filtration Sensitivity (PSD) : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity (PVS) : 20-2000 µ (micron)

PLASTIC AUTOMATIC DISC FILTER SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A222	2"2X2"PLASTIC DISC FILTER SYSTEM	10-30	44-132
A323	3"2X3"PLASTIC DISC FILTER SYSTEM	30-50	132-220
A433	4"3X3"PLASTIC DISC FILTER SYSTEM	50-70	220-308
A443	4"4X3"PLASTIC DISC FILTER SYSTEM	70-100	308-440

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(PSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

DOUBLE PLASTIC AUTOMATIC DISC FILTER SYSTEMS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A534	5"3x4"DOUBLE PLASTIC DISC FILTER SYSTEM	100-130	440-572
A644	6"4x4"DOUBLE PLASTIC DISC FILTER SYSTEM	130-200	572-880
A836	8"3x6"DOUBLE PLASTIC DISC FILTER SYSTEM	200-280	880-1232
A846	8"4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	280-330	1232-1452
A1046	10"4x6"DOUBLE PLASTIC DISC FILTER SYSTEM	330-380	1452-1672
A1056	10"5x6"DOUBLE PLASTIC DISC FILTER SYSTEM	380-480	1672-2112
A1066	10"6x6"DOUBLE PLASTIC DISC FILTER SYSTEM	480-570	2112-2508
A1276	12"7x6"DOUBLE PLASTIC DISC FILTER SYSTEM	570-670	2508-2948

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(DDSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity (For A534 and A644) : 20, 50, 100, 130, 200 µ (micron)
  Filtration Sensitivity (Others) 130 µ (micron)

PLASTIC AUTOMATIC DISC FILTER SYSTEMS WITH HYDROCYCLONE

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
P2020+A222	2"PLASTIC HYDROCYCLONE 2X2"PLASTIC DISC FILTER SYSTEM	10-30	44-132
P2030+A323	3"PLASTIC HYDROCYCLONE 2X3"PLASTIC DISC FILTER SYSTEM	30-50	132-220
2XP2025+A433	4"2X2½"PLASTIC HYDROCYCLONE 3X3"PLASTIC DISC FILTER SYSTEM	50-70	220-308
2XP2030+A443	4"2X3"PLASTIC HYDROCYCLONE 4X3"PLASTIC DISC FILTER SYSTEM	70-100	308-440

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(PSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

DOUBLE PLASTIC AUTOMATIC DISC FILTER SYSTEM WITH HYDROCYCLONE

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
3xP2030+A534	3x4"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 5"3X3"PLS.HYDROCYCLONE	100-130	440-572
4xP2030+A644	4x4"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 6"4X3"PLS.HYDROCYCLONE	130-200	572-880
5xP2030+A836	3X6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 8"5X3"PLS.HYDROCYCLONE	200-280	880-1232
6xP2030+A846	4x6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 8"6X3"PLS.HYDROCYCLONE	280-330	1232-1452
7xP2030+A1046	4x6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 10"7X3"PLS.HYDROCYCLONE	330-380	1452-1672
9xP2030+A1056	5x6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 10"9X3"PLS.HYDROCYCLONE	380-480	1672-2112
10xP2030+A1066	6x6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 10"10X3"PLS.HYDROCYCLONE	480-570	2112-2508
12xP2030+A1276	7x6"DOUBLE PLASTIC DISC FILTER SYSTEM WITH 12"12X3"PLS.HYDROCYCLONE	570-670	2508-2948

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(DDSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity
  (For 3xP2030+A534 and 4xP2030+A644) : 20, 50, 100, 130, 200 µ (micron)
- Filtration Sensitivity (Others) : 130 µ (micron)

MANUAL SAND MEDIA FILTER SYSTEMS WITH PLASTIC DISC FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
M223020	2"2X2"SAND MEDIA FILTER SYSTEM (18"Tank)	10-20	44-88
M323030	3"2X3"SAND MEDIA FILTER SYSTEM (24"Tank)	20-50	88-220
M433030	4"3X3"SAND MEDIA FILTER SYSTEM (24"Tank)	50-70	220-308
M443030	4"4X3"SAND MEDIA FILTER SYSTEM (24"Tank)	70-100	308-440
M553030	5"5X3"SAND MEDIA FILTER SYSTEM (24"Tank)	100-130	440-572
M663030	6"6X3"SAND MEDIA FILTER SYSTEM (24"Tank)	130-180	572-792
M643060	6"4X3"SAND MEDIA FILTER SYSTEM (36"Tank)	150-200	660-880
M853060	8"5X3"SAND MEDIA FILTER SYSTEM (36"Tank)	200-250	880-1100
M863060	8"6X3"SAND MEDIA FILTER SYSTEM (36"Tank)	250-300	1100-1320
M873060	8"7X3"SAND MEDIA FILTER SYSTEM (36"Tank)	300-350	1320-1540
M1083060	10"8X3"SAND MEDIA FILTER SYSTEM (36"Tank)	350-400	1540-1760
M1093060	10"9X3"SAND MEDIA FILTER SYSTEM (36"Tank)	400-450	1760-1980
M10103060	10"10X3"SAND MEDIA FILTER SYSTEM (36"Tank)	450-500	1980-2200
M10113060	10"11X3"SAND MEDIA FILTER SYSTEM (36"Tank)	500-550	2200-2420
M12123060	12"12X3"SAND MEDIA FILTER SYSTEM (36"Tank)	550-600	2420-2640

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(PSC), Self Clean Disc(PSD)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : PSD: 1 bar ; 14.5 Psi, PSC: 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Differential
- Control System : Manual
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

MANUAL SAND MEDIA FILTER SYSTEM WITH SEMI-AUTOMATIC SCREEN FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
M223020PV	2*2X2*SAND MEDIA FILTER (18*Tank) + 1 X PV20	10-20	44-88
M323030PVS	3*2X3*SAND MEDIA FILTER (24*Tank) + 1 X PVS30	20-50	88-220
M433030DVS	4*3X3*SAND MEDIA FILTER (24*Tank) + 1 X DVS40	50-70	220-308
M443030MF	4*4X3*SAND MEDIA FILTER (24*Tank) + 1 X MF104	70-100	308-440
M553030MF	5*5X3*SAND MEDIA FILTER (24*Tank) + 1 X MF105	100-130	440-572
M663030MF	6*6X3*SAND MEDIA FILTER (24*Tank) + 1 X MF106	130-180	572-792
M643060MF	6*4X3*SAND MEDIA FILTER (36*Tank) + 1 X MF126S	150-200	660-880
M853060MF	8*5X3*SAND MEDIA FILTER (36*Tank) + 1 X MF128	200-250	880-1100
M863060MF	8*6X3*SAND MEDIA FILTER (36*Tank) + 1 X MF128	250-300	1100-1320
M873060MF	8*7X3*SAND MEDIA FILTER (36*Tank) + 2 X MF106	300-350	1320-1540
M1083060MF	10*8X3*SAND MEDIA FILTER (36*Tank) + 2 X MF126S	350-400	1540-1760
M1063080MF	10*6X4*SAND MEDIA FILTER (48*Tank) + 2 X MF128	400-450	1760-1980
M1073080MF	10*7X4*SAND MEDIA FILTER (48*Tank) + 2 X MF128	450-500	1980-2200
M1083080MF	10*8X4*SAND MEDIA FILTER (48*Tank) + 2 X MF128	500-550	2200-2420
M1293080MF	12*9X4*SAND MEDIA FILTER (48*Tank) + 2 X MF128	550-640	2420-2816

GENERAL **SPECIFICATION**

- Filter Type : Vacuum Clean Screen(PV-PVS), (DVS), (MF)
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Differential
- Control System : Manual
- Filtration Sensitivity : 20-2000 µ (micron)
- :

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

AUTOMATIC SAND MEDIA FILTER SYSTEMS WITH METAL SCREEN FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A323030YE	3*2X3*SAND MEDIA FILTER (24*Tank) + 1 X YE30	20-40	88-176
A433030YE	4*3X3*SAND MEDIA FILTER (24*Tank) + 1 X YE40	40-70	176-308
A443030YE	4*4X3*SAND MEDIA FILTER (24*Tank) + 1 X YE40S 10*BODY	70-100	308-440
A553030YE	5*5X3*SAND MEDIA FILTER (24*Tank) + 1 X YE50	100-130	440-572
A663030YE	6*6X3*SAND MEDIA FILTER (24*Tank) + 1 X YE60	130-180	572-792
A643060YE	6*4X3*SAND MEDIA FILTER (36*Tank) + 1 X YE60S	150-200	660-880
A853060YE	8*5X3*SAND MEDIA FILTER (36*Tank) + 1 X YE80	200-250	880-1100
A863060YE	8*6X3*SAND MEDIA FILTER (36*Tank) + 1 X YE80	250-300	1100-1320
A873060YE	8*7X3*SAND MEDIA FILTER (36*Tank) + 2 X YE60	300-350	1320-1540
A1083060YE	10*8X3*SAND MEDIA FILTER (36*Tank) + 2 X YE60S	350-400	1540-1760
A1093060YE	10*9X3*SAND MEDIA FILTER (36*Tank) + 2 X YE80	400-450	1760-1980
A10103060YE	10*10X3*SAND MEDIA FILTER (36*Tank) + 2 X YE80	450-500	1980-2200

GENERAL **SPECIFICATION**

- Filter Type : Metal Screen Filter(YE)
- Filter Body Material : S235JR
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

AUTOMATIC PLASTIC SAND MEDIA FILTER SYSTEMS WITH PLASTIC DISC FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A32P3030	3*1/O 2X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	30	132
A33P3030	3*1/O 3X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	30-60	132-264
A44P3030	4*1/O 4X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	60-100	264-440
A65P3030	6*1/O 5X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	100-130	440-572
A66P3030	6*1/O 6X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	130-160	572-704
A67P3030	6*1/O 7X3*AUTO PLASTIC GRAVEL SYSTEM (24*) 1	160-190	704-836
A68P3030	6*1/O 8X3*AUTO PLASTIC GRAVEL SYSTEM (24*)	190-220	836-968

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(PSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L, PE
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(PSC)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

AUTOMATIC SAND MEDIA FILTER SYSTEMS WITH PLASTIC DISC FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A223020	2*2X2*SAND MEDIA FILTER SYSTEM (18*Tank)	10-20	44-88
A323030	3*2X3*SAND MEDIA FILTER SYSTEM (24*Tank)	20-50	88-220
A433030	4*3X3*SAND MEDIA FILTER SYSTEM (24*Tank)	50-70	220-308
A443030	4*4X3*SAND MEDIA FILTER SYSTEM (24*Tank)	70-100	308-440
A553030	5*5X3*SAND MEDIA FILTER SYSTEM (24*Tank)	100-130	440-572
A663030	6*6X3*SAND MEDIA FILTER SYSTEM (24*Tank)	130-180	572-792
A643060	6*4X3*SAND MEDIA FILTER SYSTEM (36*Tank)	150-200	660-880
A853060	8*5X3*SAND MEDIA FILTER SYSTEM (36*Tank)	200-250	880-1100
A863060	8*6X3*SAND MEDIA FILTER SYSTEM (36*Tank)	250-300	1100-1320
A873060	8*7X3*SAND MEDIA FILTER SYSTEM (36*Tank)	300-350	1320-1540
A1083060	10*8X3*SAND MEDIA FILTER SYSTEM (36*Tank)	350-400	1540-1760
A1093060	10*9X3*SAND MEDIA FILTER SYSTEM (36*Tank)	400-450	1760-1980
A1103060	10*10X3*SAND MEDIA FILTER SYSTEM (36*Tank)	450-500	1980-2200
A1113060	10*11X3*SAND MEDIA FILTER SYSTEM (36*Tank)	500-550	2200-2420
A1123060	10*12X3*SAND MEDIA FILTER SYSTEM (36*Tank)	550-600	2420-2640

AUTOMATIC SAND MEDIA FILTER SYSTEMS WITH SELF-CLEANING SCREEN FILTERS

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
A223020VEF	2"2X2"SAND MEDIA FILTER(18" TANK) +1 X VEF102F	10-20	44-88
A323030VEF	3"2X3"SAND MEDIA FILTER(24" TANK) +1 X VEF103	20-50	88-220
A433030VEF	4"3X3"SAND MEDIA FILTER(24" TANK) +1 X VEF104	50-70	220-308
A443030VEF	4"4X3"SAND MEDIA FILTER(24" TANK) +1 X VEF104 7	70-100	308-440
A553030EF	5"5X3"SAND MEDIA FILTER(24" TANK) +1 X EF105	100-130	440-572
A663030EF	6"6X3"SAND MEDIA FILTER(24" TANK) +1 X EF106	130-180	572-792
A643060EF	6"4X3"SAND MEDIA FILTER(36" TANK) +1 X EF126S	150-200	660-880
A853060EF	8"5X3"SAND MEDIA FILTER(36" TANK) +1 X EF128	200-250	880-1100
A863060EF	8"6X3"SAND MEDIA FILTER(36" TANK) +1 X EF128	250-300	1100-1320
A873060EF	8"7X3"SAND MEDIA FILTER(36" TANK) +2 X EF106	300-350	1320-1540
A1083060EF	10"8X3"SAND MEDIA FILTER(36" TANK) +2 X EF126S	350-400	1540-1760
A1063080EF	10"6X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	400-450	1760-1980
A1073080EF	10"7X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	450-500	1980-2200
A1083080EF	10"8X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	500-550	2200-2420
A1293080EF	12"9X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	550-640	2420-2816
A1083080EF	10"8X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	500-550	2200-2420
A1293080EF	12"9X4"SAND MEDIA FILTER(48" TANK) +2 X EF128	550-640	2420-2816

GENERAL **SPECIFICATION**

- Filter Type : Automatic Screen Filter(VEF) Automatic Screen Filter(EF)
- Filter Body Material : S235JR, SS304L, SS316L
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2,5 bar ; 36,2 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

AUTOMATIC SAND MEDIA FILTER SYSTEMS WITH SELF-CLEANING SCREEN FILTERS AND HYDROCYCLONE

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
MHA223020VEF	2"HYDROCYCLONE+2"2X2"SAND MEDIA FILTER(18"TANK)+1 X VEF102F	10-20	44-88
MHA323030VEF	3"HYDROCYCLONE+2"2X3"SAND MEDIA FILTER(24"TANK)+1 X VEF103	20-50	88-220
MHA433030VEF	4"HYDROCYCLONE+4"3X3"SAND MEDIA FILTER(24"TANK)+1 X VEF104	50-70	220-308
MHA443030VEF	4"HYDROCYCLONE+4"4X3"SAND MEDIA FILTER(24"TANK)+1 X VEF104	70-100	308-440
MHA553030EF	5"HYDROCYCLONE+5"5X3"SAND MEDIA FILTER(24"TANK)+1 X EF105	100-130	440-572
MHA663030EF	6"HYDROCYCLONE+6"6X3"SAND MEDIA FILTER(24"TANK)+1 X EF106	130-180	572-792
MHA643060EF	6"HYDROCYCLONE+6"4X3"SAND MEDIA FILTER(36"TANK)+1 X EF126S	150-200	660-880
MHA853060EF	2X5"HYDROCYCLONE+8"5X3"SAND MEDIA FILTER(36"TANK)+1 X EF128	200-250	880-1100
MHA863060EF	2X6"HYDROCYCLONE+8"6X3"SAND MEDIA FILTER(36"TANK)+1 X EF128	250-300	1100-1320
MHA873060EF	2X6"HYDROCYCLONE+8"7X3"SAND MEDIA FILTER(36"TANK)+2 X EF106	300-350	1320-1540
MHA1083060EF	2X6"HYDROCYCLONE+10"8X3"SAND MEDIA FILTER(36"TANK)+2 X EF126S	350-400	1540-1760
MHA1063080EF	3X6"HYDROCYCLONE+10"6X4"SAND MEDIA FILTER(48"TANK)+2 X EF128	400-450	1760-1980
MHA1073080EF	3X6"HYDROCYCLONE+10"7X4"SAND MEDIA FILTER(48"TANK)+2 X EF128	450-500	1980-2200
MHA1083080EF	3X6"HYDROCYCLONE+10"8X4"SAND MEDIA FILTER(48"TANK)+2 X EF128	500-550	2200-2420
MHA1293080EF	4X6"HYDROCYCLONE+12"9X4"SAND MEDIA FILTER(48"TANK)+2 X EF128	550-640	2420-2816

GENERAL **SPECIFICATION**

- Filter Type : Automatic Screen Filter(VEF), Automatic Screen Filter(EF)
- Filter Body Material : S235JR, SS304L, SS316L
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR, SS304L, SS316L
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2,5 bar ; 36,2 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

READY BUILT ON CHASSIS SYSTEMS 1

FILTRATION **SYSTEMS**

GENERAL **SPECIFICATION**

- Plastic Filter Type : Self Clean Disc(DDSC), Manual Disc(DDS)
- Filter Body Material : PA6GFR30
- Disc Material : PP
- Collector Material : S235JR
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : DDS: 1 bar ; 14.5 Psi, DDSC: 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Differential
- Control System : Manual
- Filtration Sensitivity : 20, 50, 100, 130, 200 µ (micron)

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
S422	4" 2X3" PLASTIC HYDROCYCLONE + 2X4" DOUBLE PLASTIC FILTER	70-100	308-440
S523	5" 2X3" PLASTIC HYDROCYCLONE + 3X4" DOUBLE PLASTIC FILTER	100-120	440-528
S533	5" 3X3" PLASTIC HYDROCYCLONE + 3X4" DOUBLE PLASTIC FILTER	120-150	528-660
S634	6" 3X3" PLASTIC HYDROCYCLONE + 4X4" DOUBLE PLASTIC FILTER	150-180	660-792
S644	6" 4X3" PLASTIC HYDROCYCLONE + 4X4" DOUBLE PLASTIC FILTER	180-220	792-968

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

READY BUILT ON CHASSIS SYSTEMS 2

FILTRATION **SYSTEMS**

GENERAL **SPECIFICATION**

- Filter Type : Automatic Screen Filter (EVF)
- Filter Body Material : S235JR
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 2,5 bar ; 36,2 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Time and Pressure Differential Setup
- Control System : Electronic(AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

Technical Specifications

CODE	System	Capacity	
		m³/h	GPM(US)
EVF104HS	4" 2X3" PLASTIC HYDROCYCLONE + EVF104	70-100	308-440
EVF105HS	5" 2X3" PLASTIC HYDROCYCLONE + EVF105	100-120	440-528
EVF105SHS	5" 3X3" PLASTIC HYDROCYCLONE + EVF105S	120-150	528-660
EVF106HS	6" 3X3" PLASTIC HYDROCYCLONE + EVF106	150-180	660-792
EVF126SHS	6" 4X3" PLASTIC HYDROCYCLONE + EVF126S	180-220	792-968

READY BUILT ON CHASSIS SYSTEMS 3

FILTRATION **SYSTEMS**

Technical Specifications

CODE	System	Capacity	
		m^3/h	GPM(US)
S421	4" 2X2,5" PLASTIC HYDROCYCLONE+DVS4 or HDS-A4	50-70	220-308
S521	5" 2X3" PLASTIC HYDROCYCLONE+DV6 or HDS-A4	70-120	308-528
S631	6" 3X3" PLASTIC HYDROCYCLONE+DV6 or HD-A6	120-180	528-792

If the collector material is S235JR

- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

GENERAL **SPECIFICATION**

- Plastic Filter Type : Vacuum Cleaning Filter (DVS4,DV6),
- : Hurricanefilt (HDS-A4, HD-A6)
- Filter Body Material : PA6GFR30
- Screen Material : SS304L, PA6GFR30
- Collector Material : S235JR
- Maximum Working Pressure : 6 bar ; 87 Psi
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Backwash Operation Criteria : Pressure Differential (DVS4,DV6)
- : Time and Pressure Diferantial Setup (HDS-A4, HD-A6)
- Control System : Manual (DVS4,DV6)
  Electronic(AC/DC) (HDS-A4, HD-A6)
- Filtration Sensitivity : 20-2000 µ (micron) (DVS4,DV6)
  20-200 µ (micron) (HDS-A4, HD-A6)

ENGINEERED FILTRATION SOLUTIONS

Where Standard Products End, Aytok Engineering Begins

Every water source and industrial process is unique. When your requirements for flow rate, pressure, contaminant load, or installation space exceed the specifications of our catalog products, our dedicated engineering team takes over. At Aytok, we analyze the specific parameters of your project to design and manufacture the most efficient, reliable, and perfectly integrated filtration system.

Key Parameters for Your Custom Design:

Product Group: Plastic & Metal Hydrocyclones

- Capacity / Flow Rate: The required volume of water to be filtered, measured in m^3/h.
- Filter Application Type: Specifies the filtration stage, such as coarse (pre-filtration) for larger particles or fine (precision filtration) for smaller contaminants.
- Water Source: The origin of the water to be filtered (e.g., Well Water, River Water, Sea Water).
- Water Contamination Level: The degree of suspended solids and impurities in the water (e.g., Low, Medium, High).
- Backwash Control Mode: The mode of operation for the self-cleaning cycle, with options such as Automatic, Semi-Automatic, or Manual.
- Operating Pressure: The system's designated pressure range, measured in Bar.
- Filtration Grade: The level of filtration precision, measured in Microns.

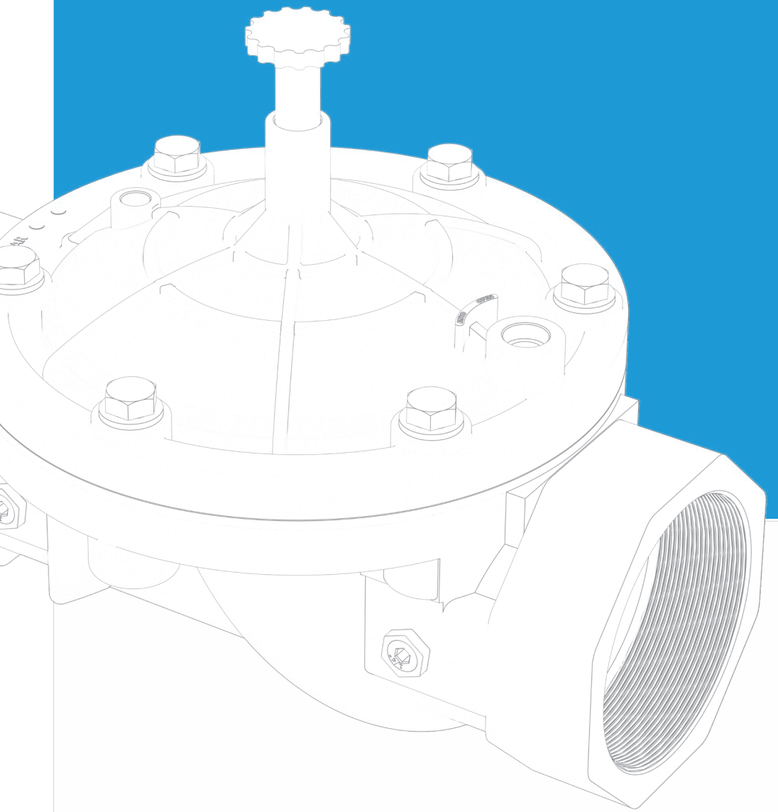
Launch the Interactive Solution Configurator

Ready to take the first step? Scan the QR code below with your smartphone.
Our configurator will guide you through a few key questions based on the parameters above to provide an instant preliminary recommendation.

BEYOND
FILTRATION
BEYOND
LIMITS ×

Demag NC4
BEYOND
Filtration
BEYOND LIMITS

+ PRODUCTS GROUP



VALVES

BEYOND
FILTRATION
BEYOND
× LIMITS

Cast Body
BACKWASH
VALVES
METAL VALVES

The Heartbeat of Your Filtration System. Strong, Simple, and Built to Last.

Don't let a weak valve be the weak link in your filtration system. Our Cast Backwash Valves are designed for one purpose: to deliver dependable, powerful performance when it matters most. Forget about high energy bills, complex maintenance, and worries about reliability. This is the heavy-duty solution you can install and trust.

CAST BODY

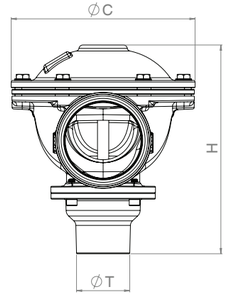
BEYOND Filtration BEYOND LIMITS

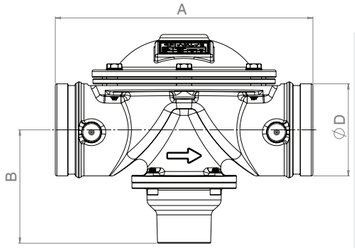
GENERAL **SPECIFICATION**

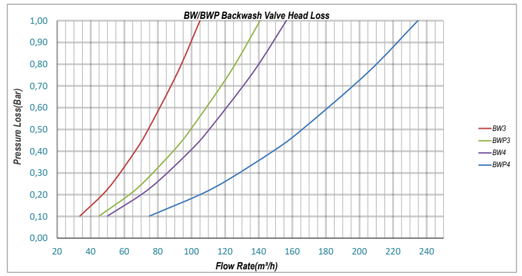
- Valve Body Material : GGG40
- Diaphragm Material : Natural Rubber
- Shaft Material : Stainless Steel
- Minimum Working Pressure : 1 bar ; 14,5 Psi
- Maximum Working Pressure : 16 bar ; 232 Psi
- Painting Method : Electrostatic Powder Coating
- Painting Material : Epoxy Polyester

WORKING PRINCIPLE

The primary function of the backwash valve is to reverse the flow of water to effectively clean the filter. Upon receiving a backwash signal, the valve automatically reconfigures the flow path: it shuts off the incoming contaminated water while simultaneously opening a discharge line. This allows clean, filtered water from the rest of the system to enter the filter backward, forcefully dislodging trapped particles and flushing them out through the newly opened drain. This cycle efficiently restores the filter's performance before the valve returns to its normal filtration position.







Technical Specifications

CODE	Drain Connection Type (T)	Inlet/Outlet (D)		A	B	C	H	Max. Flow Rate		Flow Coefficient		Operating Presssure Range	Operating Presssure Range
		Inch	DN	mm	mm	mm	Inch	m³/h	GPM(US)	kv	cv	Bar	°C (°F)
BW3X3IG2	Coupling 2" (DN50)	3	80	290	138	190	229	80	352	113	130	1-16	60(140)
BW3X3IF2	Threaded 2"	3	80	290	138	190	229	80	352	113	130	1-16	60(140)
BW3X3IG2 1/2	Coupling 2 1/2" (DN65)	3	80	290	134	190	225	80	352	113	130	1-16	60(140)
BWP3x3IF2	Threaded 2"	3	80	294	151	229	260	90	396	127	146	1-16	60(140)
BWP3x3IG2	Coupling 2" (DN50)	3	80	294	151	229	260	90	396	127	146	1-16	60(140)
BWP3x3IG2 1/2	Coupling 2 1/2" (DN65)	3	80	294	147	229	341	90	396	127	146	1-16	60(140)
BW4x4IG2	Coupling 2" (DN50)	4	100	320	140	229	259	105	462	148	170	1-16	60(140)
BW4x4IF2	Threaded 2"	4	100	320	142	229	261	105	462	148	170	1-16	60(140)
BW4x4IG2 1/2	Coupling 2 1/2" (DN65)	4	100	320	142	229	261	105	462	148	170	1-16	60(140)
BWP4x4IF3	Threaded 3"	4	100	340	226	260	341	135	594	190	218	1-16	60(140)
BWP4x4IG3	Coupling 3" (DN80)	4	100	340	226	260	341	135	594	190	218	1-16	60(140)

ADVANTAGES

Superior Flow Dynamics: The extra-wide body design ensures maximum permeability, delivering a powerful and effective backwash with minimal flow restriction.

Heavy-Duty Ductile Iron Body: Constructed from high-grade GGG40 ductile cast iron, these valves offer exceptional strength, impact resistance, and long-term durability, even in the most demanding conditions.

Optimized Energy Efficiency: Engineered for superior hydraulics, our valves minimize pressure loss across the system. This reduces the load on your pumps, leading to significant energy savings and lower operational costs.

Simplified Installation & Maintenance: Designed with a user-friendly structure and a minimal number of accessories, these valves drastically reduce installation time and make routine maintenance quick, easy, and cost-effective.

Plastic
BACKWASH

VALVES

PLASTIC **VALVES**

Lightweight Efficiency.
Reliable Performance.

Engineered for modern filtration systems, our Plastic Backwash Valves offer a superb combination of hydraulic efficiency and durability. Constructed from high-grade, robust polymers, they provide a reliable and durable solution for a wide range of water filtration applications.

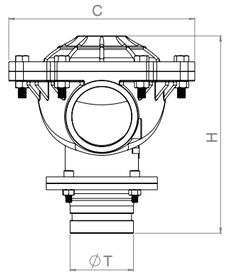
CAST BODY

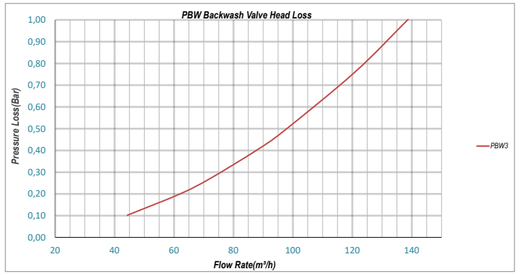
GENERAL **SPECIFICATION**

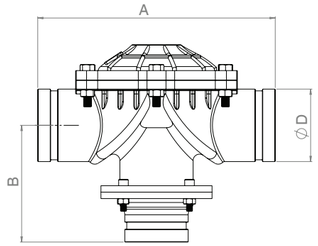
- Valve Body Material : PA6GFR30
- Diaphragm Material : Natural Rubber
- Shaft Material : Stainless Steel
- Minimum Working Pressure : 1 bar ; 14.5 Psi
- Maximum Working Pressure : 10 bar ; 145 Psi

WORKING PRINCIPLE

The primary function of the backwash valve is to reverse the flow of water to effectively clean the filter. Upon receiving a backwash signal, the valve automatically reconfigures the flow path: it shuts off the incoming contaminated water while simultaneously opening a discharge line. This allows clean, filtered water from the rest of the system to enter the filter backward, forcefully dislodging trapped particles and flushing them out through the newly opened drain. This cycle efficiently restores the filter's performance before the valve returns to its normal filtration position.







Technical Specifications

CODE	Drain Connection Type (T)	Inlet/Outlet (D)		A	B	C	H	Max. Flow Rate		Operating Presssure Range	
		Inch	DN	mm	mm	mm	Inch	m³/h	GPM(US)	Bar	°C (°F)
PBW3X3IF2	Threaded 2"	3	80	295	145	231	245	80	352	1-10	60(140)
PBW3X3IG2 1/2	Coupling 2 1/2" (DN65)	3	80	295	145	231	245	80	352	1-10	60(140)

ADVANTAGES

Excellent Corrosion Resistance: Naturally resistant to rust and common agricultural chemicals, ensuring long-term operational integrity.

Lightweight for Easy Handling: Significantly lighter than metal alternatives, making installation and maintenance faster and more convenient.

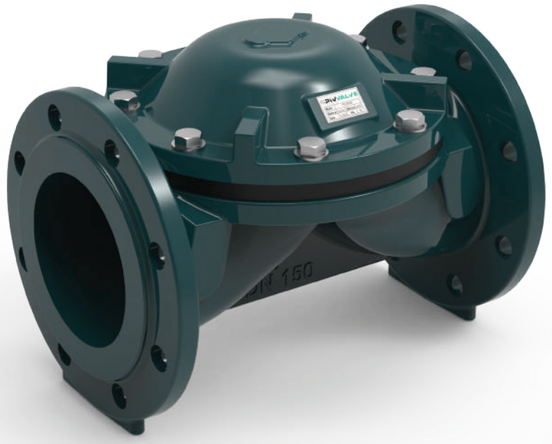
Optimized Hydraulic Performance: The advanced internal design minimizes pressure loss, which reduces pump workload and enhances overall system efficiency.

Durable Construction: Made from high-performance composite materials engineered to withstand the rigors of continuous operation.

Cast
CONTROL
VALVES
METAL VALVES

Unwavering Control for Critical Systems.

In complex water systems, precise and reliable control is not a luxury—it's a necessity. Our Cast Body Hydraulic Control Valves are engineered to provide this certainty, operating autonomously using only the energy of the line pressure itself. From simple on/off functions to complex pressure regulation and flow modulation, these valves are the versatile and robust core of your system, ideal for demanding applications in irrigation, municipal water lines, and industrial processes.



CAST BODY

BEYOND Filtration BEYOND LIMITS

GENERAL SPECIFICATION

- Valve Body Material : GGG40
- Diaphragm Material : Natural Rubber
- Minimum Working Pressure : 1 bar ; 14,5 Psi
- Maximum Working Pressure : 16 bar ; 232 Psi

WORKING PRINCIPLE

Valve Closing Mode

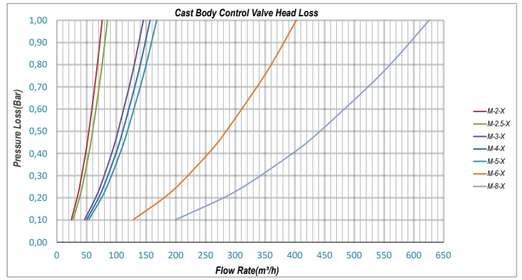
The valve closes when the pilot system directs line pressure into the control chamber (the area above the diaphragm). This pressure, combined with the spring force, creates a downward force greater than the upward force of the line pressure. The resulting net force pushes the diaphragm downward, closing and sealing the valve.

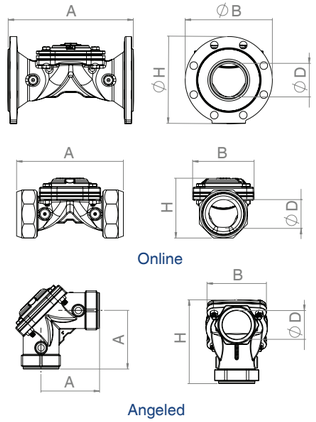
Valve Opening Mode

To open the valve, the pilot system vents the control chamber, releasing the pressure above the diaphragm. With the closing pressure removed, the upstream line pressure exerts a stronger upward force than the spring's downward force, lifting the diaphragm and fully opening the valve.

Modulation Mode

Modulation occurs when the valve is held in a partially open position to regulate pressure or flow. The pilot system achieves this by continuously adjusting the pressure in the control chamber. By balancing the upward line pressure against the combined downward forces of the chamber pressure and spring, the diaphragm maintains an intermediate position, allowing the valve to sustain a desired downstream pressure or flow rate.





Technical Specifications

Code	Inlet/Outlet (D)		Connection Type	Valve Type	A	H	B	Max. Flow Rate		Operating Presssure Range	
	Inch	DN			mm	Inch	Inch	m³/h	GPM(US)	Bar	°C (°F)
M-2-X	2	50	Threaded	Angeled	105	150	107	40	176	1-16	60(140)
M-2-X	2	50	Threaded	Online	181	101	107	40	176	1-16	60(140)
M-2.5-X	2 1/2	65	Threaded	Online	199	117	107	50	220	1-16	60(140)
M-3-X	3	80	Flanged	Online	278	200	205	80	352	1-16	60(140)
M-4-X	4	100	Flanged	Online	330	223	223	90	396	1-16	60(140)
M-5-X	5	125	Flanged	Online	373	260	260	90	396	1-16	60(140)
M-6-X	6	150	Flanged	Online	401	303	297	90	396	1-16	60(140)
M-8-X	8	200	Flanged	Online	561	335	335	105	462	1-16	60(140)

ADVANTAGES

Autonomous, Energy-Free Operation: Operates solely on the line's inherent hydraulic pressure—no external electricity or pneumatic supply required. This simplifies installation, minimizes operating costs, and ensures continuous functionality even during power outages.

Versatile Multi-Function Control: Performs multiple functions such as on/off control, pressure reduction, and flow modulation within a single compact unit, offering exceptional flexibility in system design.

Stable Downstream Pressure: The precision pilot system maintains a constant, desired outlet pressure regardless of fluctuations in upstream pressure or flow rate, ensuring protection for downstream components.

Robust Cast Body Construction: Constructed from heavy-duty cast materials for long-lasting performance and reliability under high-pressure and demanding operating conditions.

Built-in Safety Features: Automatically shuts off in the absence of line pressure, preventing potential damage from dry-run conditions and safeguarding pumps and connected systems.

Valves | Cast Control

Hydraulic Check Valve

Hydraulic Check Valves are an advanced solution for preventing system backflow, offering superior performance compared to traditional check valves. Their primary advantage lies in their controlled operation; the valve is engineered to open and close at a deliberate, smooth rate. This eliminates the abrupt pressure fluctuations and damaging water hammer that can occur during pump start-up and shutdown, ensuring the protection and longevity of the entire pipeline.

Valves | Cast Control

Manual Hydraulic Pressure Control Valve

Manually actuated hydraulic control valves operate using the energy of the pipeline itself, controlled via a 3-way selector valve for simple on/off functionality. Thanks to a highly flexible diaphragm, the valve offers quick, responsive control and provides soft, controlled closure to prevent water hammer, even under high pressure. With a minimum activation pressure of only 0.7 bar, it is highly versatile. Furthermore, the valve's modular design allows for future upgrades with various pilot systems for automated control functions.

Valves | Cast Control

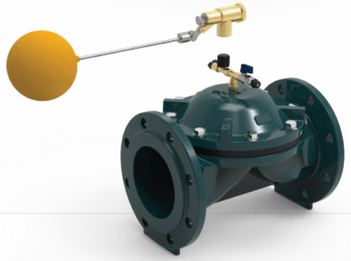
Pressure Reducing & Sustaining Control Valve

This dual-function control valve is engineered to simultaneously sustain a minimum upstream pressure and reduce it to a constant, desired downstream pressure. It achieves this through a sophisticated dual-pilot system. One pilot monitors the upstream (inlet) pressure, ensuring it does not drop below a preset minimum, which is critical for protecting pumps and supplying upstream zones. The second pilot, a pressure reducer, continuously regulates the downstream (outlet) pressure to a stable, user-defined value, regardless of fluctuations in flow or upstream pressure. This capability is particularly effective in preventing excessive flow and over-pressurization in downhill sections of a pipeline, ensuring the entire system operates safely and efficiently.

Valves | Cast Control

Float Level Control Valve

Float Level Control Valves are hydraulic valves designed to automatically maintain the water level in tanks and reservoirs. The valve is actuated by a 2-way mechanical float pilot mounted inside the tank. When the water level reaches the preset maximum, the float triggers the main valve to close smoothly and securely, preventing overflow. Conversely, when the level drops to the minimum, the valve automatically opens to begin refilling the tank. An integrated needle valve allows for the adjustment of the opening and closing speed, providing a soft, impact-free operation that protects the pipeline. The valve offers installation flexibility and can be mounted in either a horizontal or vertical position.



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Cast Control | Valves

Pressure Reducing Control Valve

Pressure Reducing Control Valves are engineered to automatically reduce a higher, variable inlet pressure to a constant, stable downstream pressure. The highly accurate, pilot-operated mechanism continuously senses the downstream pressure and modulates the valve's position to maintain the user-defined setpoint, regardless of fluctuations in upstream pressure or system flow demand. The valve provides a positive, drip-tight shut-off under no-flow conditions and is suitable for installation in both horizontal and vertical orientations.

Cast Control | Valves

Pressure Sustaining Control Valve

Pressure Sustaining Control Valves are designed to maintain a minimum upstream pressure by accurately regulating flow through the valve. They ensure stable system performance in applications that must operate above a certain pressure level and automatically close when there is no flow, providing complete system isolation. By preventing excessive pressure buildup and reducing pressure surges (water hammer), they protect downstream equipment, enhance safety, and extend the service life of pipelines. Reliable and easy to operate, these valves allow precise adjustment of the required pressure through the pilot valve, ensuring efficient and consistent pressure control across the system.

Cast Control | Valves

Quick Pressure Relief Control Valve

Quick Pressure Relief Valves serve as a critical safety device, designed to protect water systems from sudden over-pressurization events. The valve continuously monitors upstream pressure and, upon sensing that it has exceeded a user-defined setpoint, opens instantly to rapidly vent the excess pressure. Its key feature is the hydraulic control that, while allowing for immediate opening, ensures a smooth and controlled closure. This prevents the damaging pressure surges and water hammer often associated with standard relief valves, safeguarding the entire pipeline. The valve provides a secure, drip-tight seal upon closing and can also be used as a high-pressure warning valve.

Cast Control | Valves

Solenoid Control Valve

Solenoid Control Valves provide reliable, remote on/off operation for hydraulic systems, actuated by an electrical signal. The integrated solenoid coil receives a signal from any external control device—such as a PLC, timer, or simple switch—to open or close the valve. These valves offer exceptional versatility with a wide range of available solenoid coils, including standard Normally Open (NO) or Normally Closed (NC) configurations in various AC and DC voltages, as well as energy-saving latching solenoids for battery-powered or remote applications.

Cast Control | Valves

Solenoid Controlled Pressure Reducing Control Valve

Solenoid Controlled Pressure Reducing Valves combine precise hydraulic pressure regulation with remote electrical on/off control. The valve's primary function is to automatically reduce a higher inlet pressure to a stable, user-defined downstream pressure. This pressure-reducing function is enabled or disabled by an integrated solenoid, which is actuated by an electrical signal from any external controller, such as a PLC, timer, or switch. This dual-action capability allows for sophisticated automation, making the valve perfect for applications that require both precise pressure management and scheduled, remote operation.

Plastic
CONTROL

VALVES

PLASTIC **VALVES**

Precision Performance.
Unmatched Reliability.

Experience the future of hydraulic control with a valve engineered for superior performance and remarkable simplicity. Constructed from advanced, corrosion-proof polymers, our plastic control valves leverage a frictionless diaphragm design to deliver precise, reliable operation across a wide range of applications, from agricultural irrigation and drinking water lines to industrial processes. It's the smart, durable solution for modern water management.

CAST BODY

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Valve Body Material : PA6GFR30
- Diaphragm Material : Natural Rubber
- Minimum Working Pressure : 1 bar ; 14,5 Psi
- Maximum Working Pressure : 10 bar ; 145 Psi

WORKING PRINCIPLE

Valve Closing Mode

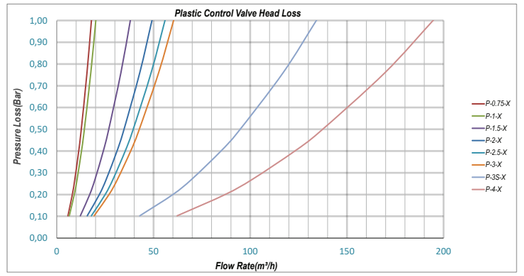
The valve closes when the pilot system directs line pressure into the control chamber (the area above the diaphragm). This pressure, combined with the force of the internal spring, generates a downward force that exceeds the upward line pressure. As a result, the diaphragm is pushed down, creating a secure, drip-tight seal.

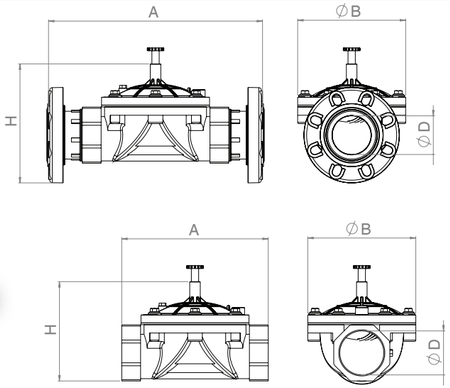
Valve Opening Mode

To open the valve, the pilot system vents the control chamber, releasing the pressure from above the diaphragm. Once this closing pressure is removed, the upward line pressure easily overcomes the spring force, lifting the diaphragm and allowing the valve to reach its fully open position.

Modulation Mode

In modulation mode, the valve is held in a partially open position to regulate flow or pressure. The pilot system continuously and precisely adjusts the pressure within the control chamber to maintain an exact balance between the opening force (line pressure) and the closing forces (chamber pressure plus spring). This equilibrium holds the diaphragm steady at an intermediate position, ensuring stable and accurate flow regulation.





Technical Specifications

Code	Inlet/Outlet (D)		Connection Type	Valve Type	A	H	B	Max. Flow Rate		Operating Presssure Range	
	Inch	DN			mm	Inch	Inch	m³/h	GPM(US)	Bar	°C (°F)
P-0.75-X	3/4	20	Threaded	Online	140	92	90	9	40	1-10	60(140)
P-1-X	1	25	Threaded	Online	140	92	90	11	48	1-10	60(140)
P-1.5-X	1 1/2	40	Threaded	Online	216	140	133	25	110	1-10	60(140)
P-2-X	2	50	Threaded	Online	216	140	133	28	123	1-10	60(140)
P-2.5-X	2 1/2	65	Threaded	Online	236	155	133	30	132	1-10	60(140)
P-3-X	3	80	Threaded	Online	236	155	200	33	145	1-10	60(140)
			Flanged		396	204					
P-3S-X	3	80	Threaded	Online	350	232	258	70	308	1-10	60(140)
			Flanged		510	269					
P-4-X	4	100	Threaded	Online	350	237	258	110	484	1-10	60(140)
			Flanged		520	284					

ADVANTAGES

Engineered for Simplicity and Reliability: With the diaphragm as its only moving part (no bearings, shafts, or bushings), the valve offers an incredibly long service life with minimal wear and tear, ensuring years of trouble-free operation.

Superior Control and Modulation: Delivers exceptionally precise flow regulation, even at very low flow rates, making it perfect for sensitive applications. The wide operating pressure range adds to its versatility.

Impact-Free, Smooth Operation: The flexible diaphragm ensures a soft, controlled opening and closing, completely eliminating damaging water hammer and protecting your entire pipeline system.

Outstanding Hydraulic Efficiency: The advanced valve body and diaphragm design provides a smooth flow path with minimal pressure loss, reducing pump workload and lowering energy costs.

Highly Versatile and Adaptable: Can be fitted with a wide range of pilot valves to perform various control functions, and can be installed in either horizontal or vertical positions for maximum flexibility.

Valves | Plastic Control

Electronic Control Valve

The Electronic Control Valve is a solenoid-actuated hydraulic valve designed for reliable, remote on/off operation. The main valve's function is controlled by an integrated solenoid coil, which is activated by an electrical signal from any external control device, such as a PLC, time relay, or simple switch. This design allows for straightforward and versatile automation, making it easy to integrate into timed cycles, such as flushing, draining, or scheduled irrigation, within any application system.

Valves | Plastic Control

Pressure Reducing & Sustaining Control Valve

This dual-function control valve is engineered to simultaneously sustain a minimum upstream (inlet) pressure and reduce it to a constant, desired downstream (outlet) pressure. It achieves this through a sophisticated dual-pilot system. One pilot monitors the upstream pressure, ensuring it does not drop below a preset minimum—critical for protecting pumps and supplying priority zones. The second pilot, a pressure reducer, continuously regulates the downstream pressure to a stable, user-defined value, regardless of fluctuations in flow or upstream pressure. This capability is particularly effective in preventing excessive flow and over-pressurization in downhill sections of a pipeline.

Valves | Plastic Control

Pressure Reducing Control Valve

Pressure Reducing Control Valves are engineered to automatically reduce a higher, variable inlet pressure to a constant, stable downstream pressure. The highly accurate, pilot-operated mechanism continuously senses the downstream pressure and modulates the valve's position to maintain the user-defined setpoint, regardless of fluctuations in upstream pressure or system flow demand. This ensures that downstream components are always protected from over-pressurization. The valve provides a positive, drip-tight shut-off under no-flow conditions and is suitable for installation in both horizontal and vertical orientations.

Valves | Plastic Control

Float Level Control Valve

Float Level Control Valves are hydraulic valves designed to automatically maintain the water level in tanks and reservoirs. The valve is actuated by a 2-way mechanical float pilot mounted inside the tank. When the water level reaches the preset maximum, the float triggers the main valve to close smoothly and securely, preventing overflow. Conversely, when the level drops to the minimum, the valve automatically opens to begin refilling the tank. An integrated needle valve allows for the adjustment of the opening and closing speed, providing a soft, impact-free operation that protects the pipeline. The valve offers installation flexibility and can be mounted in either a horizontal or vertical position.

Plastic Control | Valves

Pressure Sustaining Control Valve

Plastic Pressure Sustaining Control Valves are designed to maintain a minimum upstream pressure by regulating flow through the valve, ensuring stable operation even under varying flow conditions. Made from high-quality, corrosion-resistant plastic materials, they offer excellent durability and long service life in irrigation, water distribution, and industrial systems. These valves automatically close when there is no flow to provide complete system isolation, while preventing excessive pressure buildup and minimizing pressure surges (water hammer) to protect downstream equipment. Lightweight, easy to install, and simple to adjust via the pilot valve, plastic pressure sustaining valves deliver reliable and efficient pressure control with minimal maintenance requirements.

Plastic Control | Valves

Quick Pressure Relief Control Valve

Quick Pressure Relief Control Valves are an essential safety device designed to protect pipelines from damaging pressure surges (water hammer), which are often caused by the rapid start-up or shutdown of pumps. The valve continuously monitors upstream pressure and, upon sensing it has exceeded a user-defined setpoint, opens instantly to rapidly vent the excess pressure. Its most critical feature is its hydraulically controlled closure; while the opening is instantaneous, the closing is deliberately slow and controlled. This prevents the creation of secondary pressure waves, safeguarding the entire system. Once the pressure returns to normal, the valve closes automatically, providing a secure, drip-tight seal.

Plastic Control | Valves

Solenoid Control Valve

Solenoid Control Valves provide reliable, remote on/off operation for hydraulic systems, actuated by an electrical signal. An integrated 3/2-way solenoid pilot receives a signal from any external control device—such as a PLC, timer, or simple switch—to either open or close the main valve. For added convenience, the valve includes a manual override on the solenoid pilot, allowing for easy operation without an electrical signal. The valve offers exceptional versatility with a wide range of optional solenoid coils, including standard Normally Open (NO) or Normally Closed (NC) configurations in various AC and DC voltages, as well as energy-saving latching solenoids for remote or battery-powered applications.

Plastic Control | Valves

Solenoid Controlled Pressure Reducing Control Valve

Solenoid Controlled Pressure Reducing Valves combine two critical functions: precise hydraulic pressure regulation and remote electrical on/off control. The valve's primary function is to automatically reduce a higher inlet pressure to a stable, user-defined downstream pressure. This pressure-reducing capability is activated or deactivated by an integrated solenoid, which is actuated by an electrical signal from any external controller, such as a PLC, time relay, or switch. This dual-action design allows for sophisticated automation, making it ideal for applications requiring both precise pressure management and scheduled or remote operation.

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BEYOND LIMITS

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WATER FILTRATION SYSTEMS