

Cartridge Filters for Water Treatment

The Avanale cartridge filter is a filter system with high precision. It consists of the housing and the cartridge elements, mainly used in the pretreatment. It's widely used in the electronic industry, sewage water treatment, beverage, food, pure water treatment, RO pre-treatment, as well as the home water purification equipment. Ideal for corrosive water.

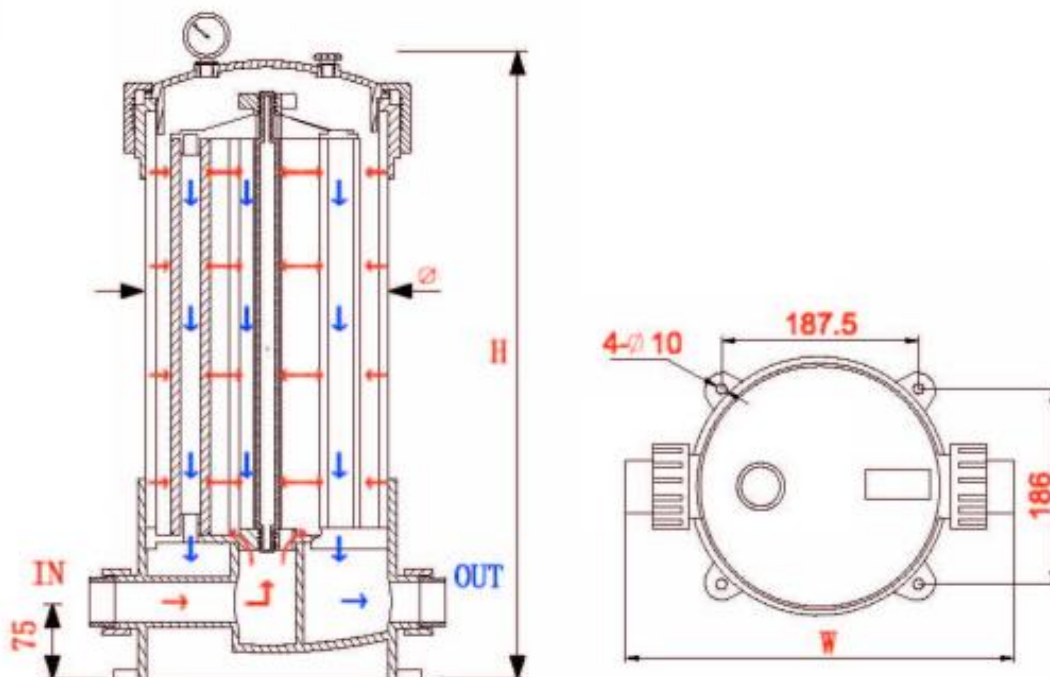


Cartridge Filters (3 or 5 cartridges)

- All the parts of Martin Cartridge Filter are made of UPVU. Clamp screws are 316 SS
- The highest working temperature is 45°C
- The inlet and outlet are featured under the same line connecting with 1.5" or 2" unions.
- The distribution system of Avanale Cartridge Filter is distributed from bottom to top.
- Water is well-proportioned with small strike to cartridges and air is easy to be discharged.
- The bottom system of Avanale Cartridge Filter is designed together as a whole the top localiser & closure system to eliminate filter bypass.
- Cartridges are easily installed, pushed down and closed, preventing internal leakage.
- Avanale Cartridge Filter is corrosion resistant. It can be used instead of Stainless units.



Model No		Material	Size	Cartridges	Inlet/outlet	Max Pressure
MT-CF-3DC1	MT-CF-5DC1	UPVC	Ø225*H465, 10"	3 or 5	DN40/ ANSI1.5" DN50/ANSI2"	0.6Mpa/ 85psi
MT-CF-3DC2	MT-CF-5DC2	UPVC	Ø225*H715, 20"			
MT-CF-3DC3	MT-CF-5DC3	UPVC	Ø225*H965, 30"			
MT-CF-3DC4	MT-CF-5DC4	UPVC	Ø225*H1215, 40"			

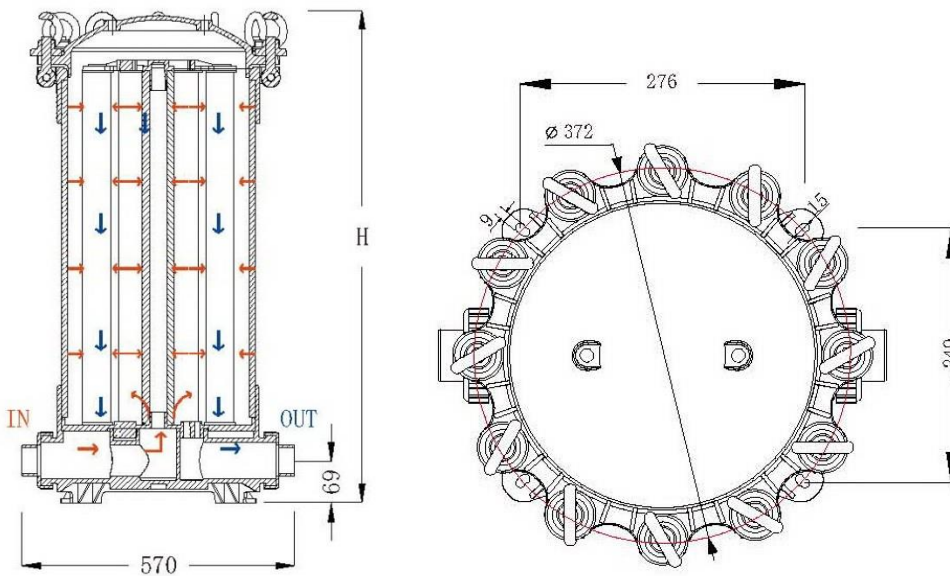


Cartridge Filters (8 or 9 cartridges)

- All the parts of Avanale Cartridge Filter are made of UPUV. Head clamps screw is 316
- The highest working temperature is 45°C
- The inlet and outlet are inline connecting with 3" unions.
- The distribution system of Avanale Cartridge Filter is distributed from bottom to top.
- Water is well-proportioned with small strike to cartridges and air is easily discharged.
- The bottom system of Avanale Cartridge Filter is designed together as a whole the top localizer & closure system.
- Cartridges easily installed, pushed down and closed, preventing internal leakage.
- Avanale Cartridge Filter is corrosion resistant. It can be used in place of SS housings.



Model No		Material	Size	Cartridges	Inlet/outlet	Drain	Max Pressure
MT-CF-8DC1	MT-CF-9DC1	UPVC	Ø315*H495	8 or 9	DN80/ ANSI 3"	DIN1/2" or ANSI 1/2"	0.6Mpa/ 85psi
MT-CF-8DC2	MT-CF-9DC2	UPVC	Ø315*H745				
MT-CF-8DC3	MT-CF-9DC3	UPVC	Ø315*H995				
MT-CF-8DC4	MT-CF-9DC4	UPVC	Ø315*H1245				



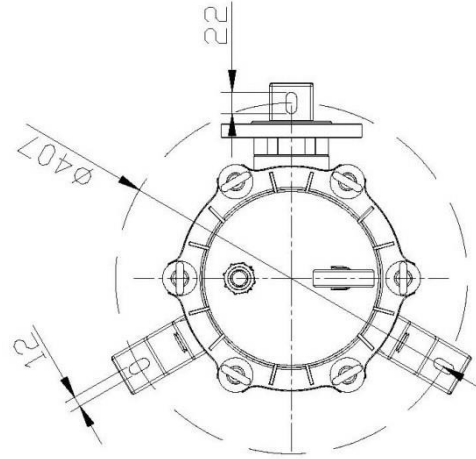
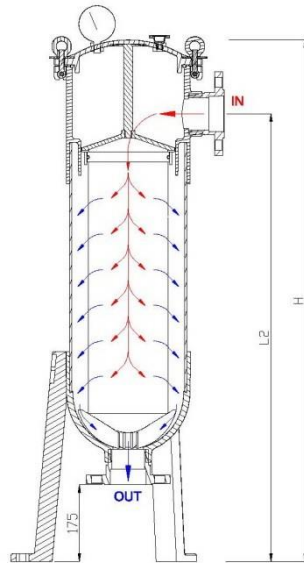
High Flow Filters

Avanale HF filter systems are widely used in the sewage and wastewater application, desalination, electronics and other industries. The PF filter system is featured with high flow, long service life. The filter system consists of the housing and the cartridge.

- UPVC material is corrosion resistant.
- Higher flow than other cartridges.
- Longer service life, more than 3 times than others.
- Design makes the cartridge replacement become easier.



Model No	Material	Size	Cartridge L1	Housing L2	Inlet/outlet	Flow Rate	Max Pressure
MT-HF-20	UPVC	Ø225*H1006	628mm +/- 2	863mm	FLG DN50/ ANSI 2"	25M ³ /H	0.7Mpa/ 100psi
MT-HF-40	UPVC	Ø225*H1506	1018mm +/- 2	1363mm		50M ³ /H	



INSTALLATION:

- Install the pressure gauge into the threaded port on the filter lid.
- Unscrew the lid lock ring, install 5 pieces cartridge elements. Do not over tight the lock ring.
- Place the filter into the required position.
- Ensure that it is on a flat level surface and is aligned with the pump.
- Ensure that the pipe extending from the pump outlet is connected to the filter marked inlet.
- Screw the supplied half barrel unions and tails onto the inlet and outlet before gluing the UPVC pipe onto the filter. Cut and fit the pipe and fittings onto the filter and the pump.
- Glue the pipe and fitting onto the pump, filter and allow the glue to set for 24 hours before commissioning the system.

START UP PROCEDURE:

- Ensure that all valves installed before or after the filter are open.
- Ensure that the filter is plumbed correctly. Pipe from pump outlet must be attached to the filter inlet port.
- Loose the air bleed screw on the top of the filter lid.
- Turn on the pump and allow the pump to run until all the air has been expelled from the filter tank. Water will run from the bleed screw.
- Tighten the air bleed screw.
- The filter is primed and ready for operate.
- Do not stand over the lid whilst adjusting the air bleed to purge the system of air. Injury may occur if air bleed valve comes loose.

CLEANING AND CHANGE:

- Release air from the tank using the air screw.
- Unscrew the filter's lock ring.
- Remove the cartridge elements from filter tank.
- Clean the element's surface.
- Place the cartridge elements into the filter tank and ensure that are seated correctly.
- Place the lid onto the tank and screw and screw the lock ring down. Don't over tighten the lid lock ring.
- The cleaning time depending upon the water's condition.

Bag Filter

The Avanale bag filter system is a new filter system. It features high precision, high flow, easy installation and easy maintenance. It's widely used in different industries: foods, cosmetic, chemistry, medicine, textile, etc. The bag filter system consists of the housing, support basket and the filter bag.

- UPVC material is corrosion resistant.
- The unique seal system makes provides a safe system.
- It can prevent the bag being plunged into the support basket, no inner leak.
- Good appearance and compact inner construct.
- High precision, the filter range can be from 0.5~200um.
- High efficiency, quick flow of liquid, large holding capacity of impurities.
- The price is competitive.



Type	Material	Size	Inlet/outlet	Housing L	Bag	Flow	Max Pressure
MT-BF-1-1	UPVC	Φ225*H820	FLG DN50/ ANSI 2"	665mm	1#	20 m3/h	0.7Mpa/ 100psi
MT-BF-1-2	UPVC	Φ225*H1200		1045mm	2#	40 m3/h	

Operation

The liquid which will be purged should be poured into the bag filter. From the inlet, then the liquid flow the inner surface of the bag to the outer surface. At first, it will be come into the appointed tank. On reverse, the impurity will be held up in the bag. The filter can be recycled when changing another new bag.

