



FSA FILTER SYSTEMS AUSTRALIA

Whole House Multi Media Vessel With Runxin Backwash Head GT1-18

WARNING:

For correct operation of this appliance it is essential to observe the manufacturer's instructions.

This system must be installed in a vertical position on a solid base.

WaterMark:

This Water Filtration System is certified to WaterMark Standards AS/NZS 3497 Under the Certificate number 23247. WaterMark is the standard that is required by law for a qualified plumber in Australia to install any item on municipal town water. All products used under this certification will give you peace of mind knowing that your water filter complies with Australian plumbing codes.

Our WaterMark filtration systems are hand assembled here in Australia and are batch tested to ensure quality and workmanship for your filtration products.

Installation:

As per Australian Plumbing Standards, this unit must be installed by a Qualified Plumber in accordance to the manufacturer's instructions and requirements. Failure to follow these guidelines may void warranty and insurance

Multi Media Filter:

This filter is compatible with a range of different filter media. The valve is a Runxin Manual Flush valve which has 3 settings; 1. Filter 2. Fast Rinse 3. Backwash.

The Filter system should be backwashed for 5 – 15 Minutes to flush any debris or fines out of the vessel before being set to filter mode. If the system has not been used for long periods of time (over 1 week+) use fast rinse for 5 - 15 minutes to circulate the water to clear any debris that may be present in the screens, valves or tubes.

Working Specifications:

Max Pressure	150 psi
Max Flow	67L/Min
Temperature	1°C – 50°C
Max Vacuum	140mmHg (5.5" Hg) Negative Pressure

Filter Settings:

This diagram shows the flow direction of water during all three settings

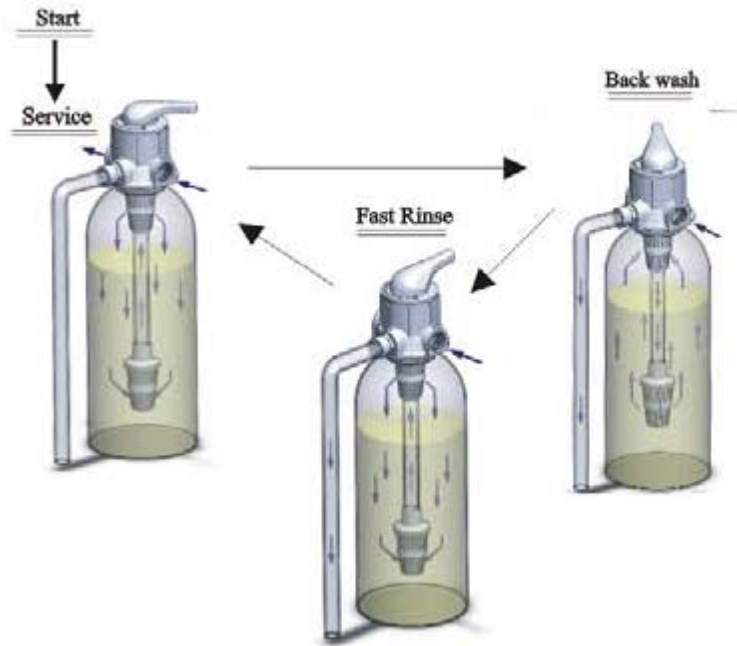


Figure 1-1 Shows the Valve installed on the Vessel with Drop tube and Valve in place

Figure 1-2 Shows Example installation of multimedia filter Including a bypass which is recommended. All installations are Different so please consult your plumber prior to installation.

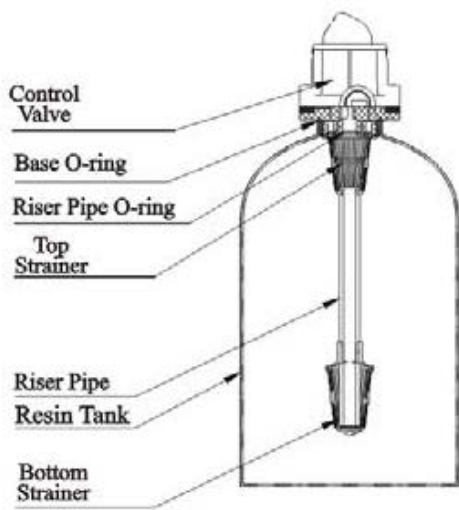


Figure 1-1

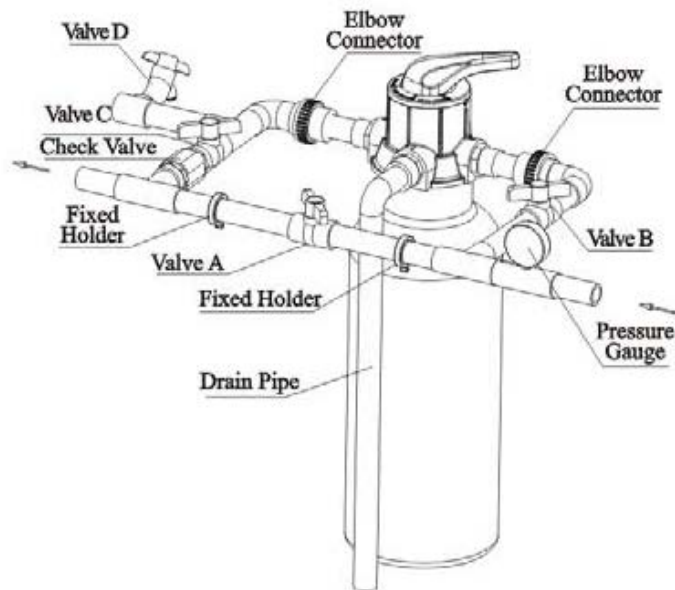
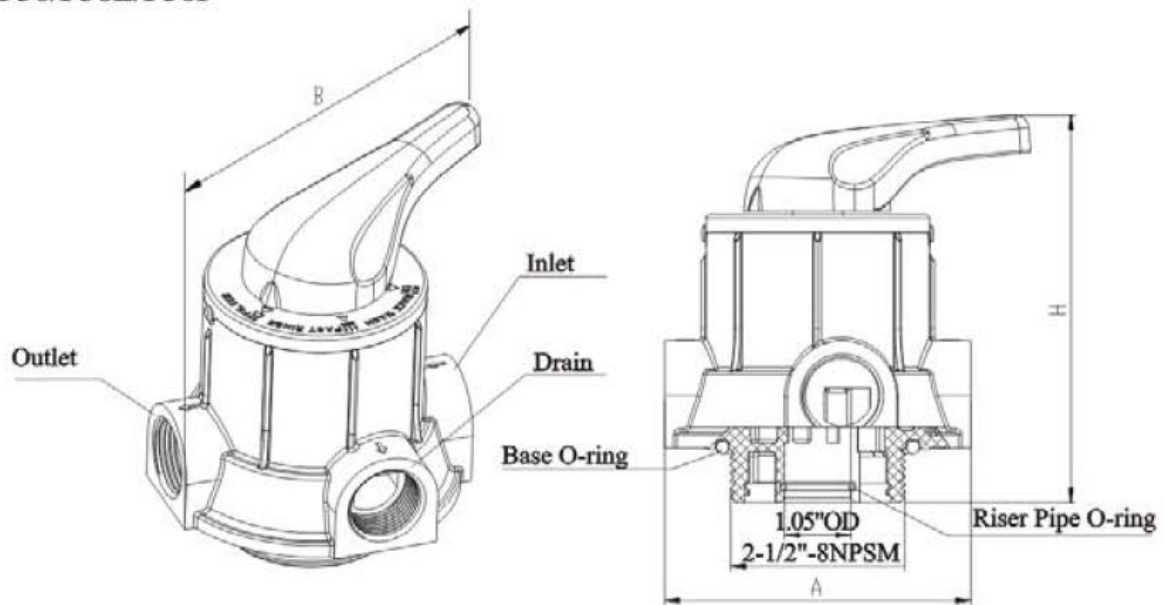


Figure 1-2

Multi-Port Valve Diagrams:

F56/F56E/F56F



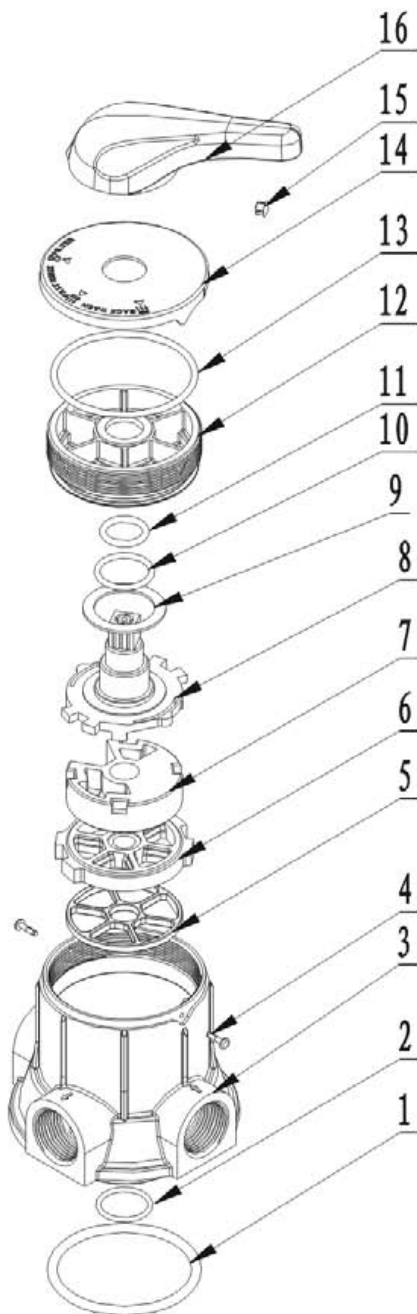
English Name	Figure	Description
FILTER		In service (filtration) status
FAST RINSE		In Fast rinse status
BACK WASH		In backwash status

MODEL: F56A/F56B/F56C/N56D/F56E/F56F/F56AC/F56EC

Outer dimension

Model	F56A	N56D	F56E	F56F	F56AC	F56EC	F52
A(mm) max	126	180	92	126	126	92	90
B(mm) max	150	178	130	160	175	135	140
H(mm) max	158	205	140	165	120	92	135

Model	Inlet/ Outlet	Drain Outlet	Base	Riser Pipe	Flow Rate m ³ /h	Tank Size (inch)
F56A	1" F	1" F	2.5" -8 NPSM	1.05" OD	4	6" ~12"



Item No.	Description	Part NO.						Quantity
		F52	F56B	F56C	F56E	F56A	F56F	
1	O-ring	8371018	/	/	8378143	8378143	8378143	1
2	O-ring	/	8378078	8378078	8378078	8378078	8378065	1
3	Valve Body (ABS+GF10)	8022001	8022013	8022015	8022021	8022002	8022025	1
	Valve Body (PPO+GF20)	/	/	/	/	8022004	8022026	
4	Plastic Pin	/	/	/	/	8993002	8993002	2
	Screw, Cross	8909008	8909008	8909008	8909008	/	/	
5	Seal Ring	8370004	8370004	8370004	8370004	8370005	8370027	1
6	Fixed Disk	8469002	8469002	8469002	8469002	8469003	8469013	1
7	Moving Disk	8459002	8458002	8459002	8459002	8459003	8459014	1
8	Shaft	8258002	8258002	8258002	8258002	8258003	8258006	1
9	Anti-friction Washer	8216002	8216002	8216002	8216002	8216003	8216003	1
10	O-ring	8378050	8378050	8378050	8378005	8378115	8378115	1
11	O-ring	8378048	8378048	8378048	8378048	8378113	8378113	1
12	Fitting Nut	8092002	8092002	8092002	8092002	8092003	8092003	1
13	O-ring	8378105	8378105	8378105	8378105	8378128	8378128	1
14	Decorative Cover	8444002	8444002	8444002	8444002	8444020	8444003	1
15	Decorative Button	8323001	8323001	8323001	8323001	8323001	8323001	1
16	Handle (Metal)	8253002	8253002	8253002	8253002	8253005	8253005	1
	Handle (Plastic)	8253004	8253004	8253004	8253004	8253006	8253006	

Installation / Set Up

Filling the Vessel with Filter Media

1. Place filter vessel on a solid level surface close to a drain. It is recommended to place on a concrete slab (500 x 500mm)
2. Lower the drop tube into the vessel, dome end first, and centre it into the depression at the bottom of the vessel.
3. Using a funnel or similar device, fill the bottom of the vessel slowly with 1x bag of filter Gravel. The filter gravel will help stabilise the drop tube and also protect the bottom screen from blockages.
NOTE: Be careful not to spill any media in the centre drop tube.
4. Once the filter Gravel is in the Vessel, you can begin to add your desired filter material. Keep checking the centre tube to ensure it stays centred during the filling process. Leave at least a 30cm gap from the top of the vessel, this will allow the valve to be installed and also leave area for the media to move around getting the best result from a backwash.

Fitting the Runxin Valve to the Vessel

The Drop tube supplied with this vessel is already cut to the exact length required for installation. The bottom screen is pre-installed.

1. Fit the Top Screen to the Runxin valve and lock into place.
2. Install the Base seal ring then fit the valve to the vessel, ensure that the O-ring stays in place while tightening the valve.

Installing System to Plumbing

All installation scenarios may be different so there is more than one way to connect this system. An example provided on page 2 shows a bypass set up which would be the most ideal type of installation.

The plumber installing this system will determine which installation set up is best suited.

- Ensure that there is a 1-way check valve mounted before and after the filtration system
- Control valves should be higher than the drain
- Do not directly connect the drain line to the sewage to avoid wastewater contaminating the filter system.
- This system is a refillable media vessel, and as such, will require the head assembly to be disconnected to allow changing or topping up of filter media. Due to this, it is recommended that you use fittings and installation techniques that are easy to remove for maintenance

Operating System with Filter Media

When a system is full of filter material, it will require back-flushing before its initial usage.

Using Carbon Media:

- Carbon media GAC will produce a fine black powder which will discolour water and may clog up appliances when first installed. It will need to be thoroughly backwashed before setting the valve to 'filter' to ensure that all carbon fines are removed. Acid Washed Coconut carbon is a preferred type of media as there is less carbon dust which make the flushing process quicker. Run the filter on backwash until the water runs clear, then set to 'fast rinse' and allow the water to run clear. Once done, set the system to 'filter'

Using pH Neutralising Media:

- Calcite and Magnesium are two common types of filter media used for pH adjustments in Rain or Bore Water. These types of media will slowly dissolve into the water over time which will mean that they require replenishment to maintain high flow rate capacity. When first using a pH filter media, follow the same backwash and rinse cycles as mentioned above. Test your pH ongoing and add more filter media when the pH drops below the minimum desired level (6.8 pH). In cases where Magnesium and Calcite are used together, add the calcite to the vessel first, then add the Magnesium on top. Ensure that you do not over fill the vessel.

Ongoing Maintenance

When Servicing or adding media to this vessel, ensure that the correct procedures are followed as per manufacturer's recommendations.

Turn off the incoming water supply and isolate the system. Disconnect pipes from the head cap and remove the manual valve. For removing filter media, you can use a siphon pump to eject the filter media.

If adding filter media (Such as Calcite), use a funnel and avoid getting any media in the centre drop tube.

Re-connect the head cap and plumbing as directed previously and backwash the filter until it runs clear.