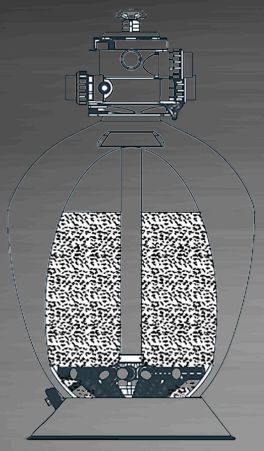
NORIA

performance on demand

EVO

INSTALLATION & OPERATION

EVO:M



OVERVIEW

Noria EVO:M media filters offer superior performance. Strategically designed and engineered, the EVO:M media filter perfectly matches the higher output of Noria ECO and POD pumps providing a supreme choice for pool equipment. The high density polyethylene material maximises the strength of the filter. Due to the double layered lateral arms the filtration bed is higher than other standard sand filters, offering a better quality of water and less frequency of backwash in the same conditions.The filters incorporate a 6-way multiport valve which covers the necessary operations related with the filtration procedure; filtration, backwash, rinse, waste, recirculate and close.

SPECIFICATIONS

Product	**EVO:M600-40**	**EVO:M600-50**	**EVO:M700-40**
Valve	40mm	50mm	50mm
Height	1090mm	1142mm	1232mm
Diameter	610mm	610mm	711mm
Flow Rate	14.6m³	14.6m³	19.5m³
Max. work pressure	400kPa	400kPa	400kPa
Media Capacity:	**EVO:M600-40**	**EVO:M600-50**	**EVO:M700-40**
- FLO Coarse (15kg)	3 bags	3 bags	4 bags
- FLO Fine (15kg)	5 bags	5 bags	6 bags
- Sand Coarse (25kg)	2 bags	2 bags	2 bags
- Sand Fine (25kg)	5 bags	5 bags	6 bags

INSTALLATION

It is recommended to install the filter as close as possible to the swimming pool and in such a way that the base lies completely stable upon a level horizontal surface. The place where the filter is installed should have enough ventilation and adequate drains so that, in case of an accident, the water can escape through the drain system, avoiding risk of damaging the equipment. Install the filter in a place with enough space to carry out the operation and maintenance services. Media should be loaded once the filter is installed into its exact location following the instructions in the “MEDIA LOAD”

ASSEMBLY

To assemble the filter, proceed as follows;

1. Some lateral arms could not be completely tight. Check all the connections and tighten them if necessary.
2. Install the O’ ring supplied between the multiport valve and the filter.
3. Move the valve and place it so that the connections are facing the proper direction.
4. Tighten the clamp of the valve to the filter with the star shaped nut.
5. Assemble the three connections of the selector valve. Each of these three outlets are clearly identified on the valve as follows:

   i) ”PUMP”: it is the connection of the pump which comes from the filtration pump.

   ii) “WASTE”: it is the connection of the pipe which is going to the drain.

   iii) “RETURN”: it is the connection of the pipe going back to the pool.
6. Assemble and install the pressure gauge and the sight glass.

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INSTALLATION

ASSEMBLY BETWEEN FILTER TANK AND VALVES:

1. Preparation stage:

   Apply silicone lubricant on the outer surface of the valve and the inner surface of the valve flange.

2. Assembly stage:

   Place the valve flange vertically into the neck of the filter tank, applying even hand pressure.

3. Fit the clamp around the valve flange and tank neck. Tighten the clamp nut enough to enable the valve to still rotate for final positioning.

4. Fit the pressure gauge to the Multiport valve.

IMPORTANT: HAND TIGHTEN ONLY.

MEDIA LOAD:

In order to obtain maximum efficiency from your filter, it is recommended to use Noria FLO filter media.

1. Remove the multiport lid and joint.

2. Insert the protector lid into the neck of the filter. This protects the central pipe from the media.

3. Fill the filter with water to half capacity and slowly pour in the required amount of media.

4. Remove the protector lid and reinstall the multiport valve connected with the central pipe of the filter.

5. Tighten the clamp to the filter with the star shaped nut.

OPERATION

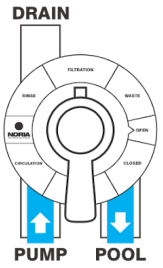
The multiport valve has a handle of 6 positions that selects any of the necessary operations to obtain maximum filter efficiency.

NB. Switch the pump OFF when changing positions of the multiport valve.

1. **FILTRATION:** Rotate the Multiport valve handle until it reaches the FILTRATION position. Switch ON the pump.The media forms thousands of channels while the water is descending through the filter, and retains the suspended solids (SS). These SS retained increase and block the channels resulting in pressure build up. When the pressure gauge reaches 3.5 bar (50psi) the filter is saturated and it needs to proceed with the backwash.
2. **BACKWASH:** At this pressure the media is unable to collect more impurities.. Switch pump OFF and rotate the multiport handle to BACKWASH position. Switch the pump back ON for about 2 minutes. The quality of the water can be checked in the sight glass.
3. **RINSE:** Rinse is recommended immediately after backwash for 1 minute. Switch pump OFF and rotate the multiport handle to RINSE position. The water will be cloudy for a few seconds. Rinse prevents this water entering the pool.
4. **CIRCULATE:** In this position the multiport valve allows the water from the pump to go directly to the pool without passing through the inside of the filter.
5. **WASTE:** If the swimming pool needs to be drained, the multiport valve must be in this position. When draining, the main valve is fully open for the pump to have sufficient suction. On the other hand the skimmer valves and bottom cleaner valves must be closed in order to avoid air suction.
6. **CLOSED:** This position is for closing off the water supply from the filter to the pump and it is used when opening the pump strainer or for installation maintenance.…

MULTIPORT VALVE OPERATION

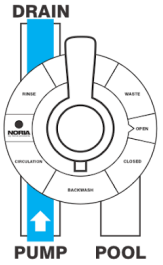
From pump down through valve, through media bed, up through stand pipe to valve and back through pool return.



FILTRATION

For standard operation and used for vacuuming.

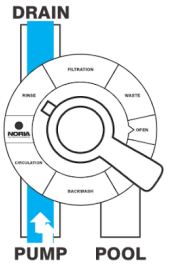
From pump, through valve, down through standpipe, up through media bed, and through valve to waste.



BACKWASH

For cleaning the media bed of all debris.

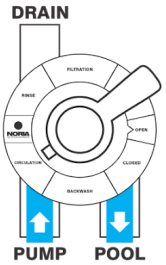
Flow from pump, through valve, down through media bed, up through standpipe, through valve to waste.
(Position also used for initial start-up and levelling media bed after Back-wash)



RINSE

Used after Backwash to settle and level the media bed.

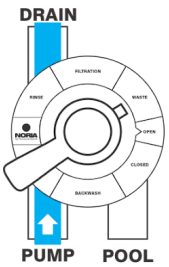
From pump through valve to pool. This position bypasses the filter and is used for circulation of pool water only.



RE-CIRCULATE

Re-circulates water to and from the pool, (by-passing the filter bed) sometimes used for spa jets to increase water flow.

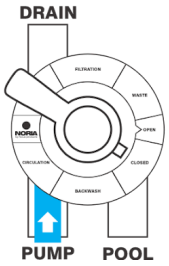
From pump, through valve to waste. Also position for lowering water level or assist in draining pool.



WASTE

To lower excess water from the pool.

From pump to valve without further circulation. Prevents any flow to filter and pool.



CLOSED

Closes of all ports on the valve. Note: DO NOT switch on the pump when the valve handle is in the CLOSED position.

START-UP PROCEDURE

Once the filter has been loaded, the media must be washed for 4 minutes.

Proceed with the backwash.

Once this has been done the filter is ready to operate.

NB Switch the pump OFF when changing positions of the multiport valve handle.

MAINTENANCE

Always replace the joints and pieces that may not be in good condition. Backwash and rinse when required according to the pressure gauge indications.

It is recommended to replace the media inside the filter approximately every 3-5 years.

WARRANTY

The EVO:M filter tank is covered by a 10 year warranty against defects in materials and faulty workmanship. The internal components are covered for 1 year limited warranty from the date of purchase. Should a gauge or element fail, it must be returned to Focus Products freight prepaid for repair or replacement at our discretion. Focus Products will at its discretion, replace or repair any defective parts. Component failure must be due to a defect in materials or workmanship.

This warranty does not apply if failure is due to abuse, misuse, improper installation or any of the following.

- Sanitiser levels in excess of 15ppm
- Water pressure in excess of 250 kpa
- Inadequate access for service
- The use of the filter for anything other than swimming pool and spa filtration
- Water temperature above 40 deg celsius
- Incorrect filter media being utilised
- Misuse or abuse whether by accident or intention.

Focus Products assumes no liability for consequential damages of any kind. No person is authorised to make any representation on behalf of Focus Products other than what is written here.

For warranty information and forms visit https://noria.focusproducts.com.au/warranty

To have your Noria Product inspected, serviced and/or repaired under warranty please contact your point of purchase or call our Service Department to be directed to the nearest Warranty Service Agent. Please have your model, serial number, installation date and proof of purchase nearby to expedite your warranty request.

Commercial Installations

The EVO:M Filter tank is covered by a limited 3 year warranty against defects in materials and faulty workmanship from the date of purchase for commercial use. The valve, unions, gauge and internals are covered for a period of 12 months from the date of purchase.