

TOP MOUNT SAND FILTERS OWNER'S MANUAL

[16" 18" 20"
25"]



- Stop the pump and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 1/2 to 1 minute. Stop the pump and set valve to FILTER position and then restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water.
- Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.
- Note the initial pressure gauge reading when the filter is clean. (It will vary from each pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 1.5 bar, higher than the initial "clean" pressure you noted, it is time to backwash the filter (see BACKWASH under filter and control valve functions).



During initial clean-up of the pool water it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.

VI. TECHNICAL APPENDIX

1. INSTALLATION INSTRUCTIONS

The installation of the valve is carried out by screwing or slipping in, of the available connections according to the installation scheme.



It is recommended to use adapter unions. Maintenance works and replacement are also easier by using adapter unions.

2. FUNCTION AND INSTALLATION SCHEME

I. Filtration of medium (i.e. water)

Pool → pump → valve (to filter)
→ filter → valve (from filter) → pool

IV. Cleaning of filter medium (i.e. sand) in upstream (reserved flow in filter)

Pool → pump → valve (from filter) →
filter → valve (to filter) → waste

II. Drainage of pool with pump

Pool → pump → valve → canal

V. Recirculation of fluid without filter (by pass filter)

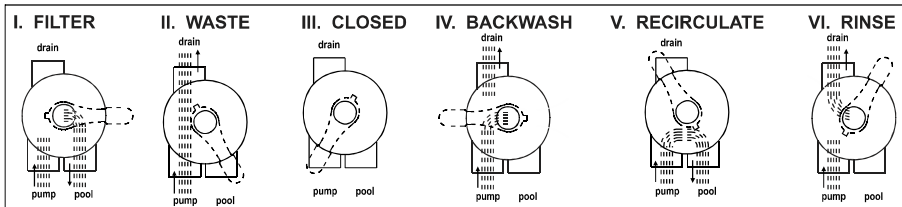
Pool → pump → valve → pool

III. No circulation

Do not operate pump.
Pool → pump → valve

VI. Cleaning of filter medium (i.e. sand) after backwash

Pool → pump → valve (to filter) →
filter → valve (from filter) → waste



I. FUNCTION

The PLASTIC FILTERS are using the latest pool filter technology and molder of tough, durable, environment, plastic material. These filters are corrosion-proof, user-friendly and they have a longer life time.

The filter uses special filter sand to remove dirt particles from pool water. The filter sand is loaded into the filter tank and functions as the permanent dirt removing media. When the control valve is in the FILTER position, the pool water which contains suspended dirt particles, is pumped through the piping system and is automatically directed by the patented filter control valve to the top of the filter tank. As the pool water is pumped through the filter, dirt particles are trapped by the sand bed, and filtered out. The cleaned Pool water is returned from the bottom of the filter tank, through the control valve and back to the pool through the piping system. This entire sequence is continuous and automatic and provides for total recirculation of pool water through the filter and piping System.

After a period of time the accumulated dirt in the filter causes a resistance to the flow, and make it diminish. This means it is time to clean your filter. With the control valve in the BACKWASH position, the water flow is automatically reversed through the filter so that it is directed to the bottom of the tank, up through the sand, flushing the previously trapped dirt and debris over waste line. Once the filter is back-washed of dirt, set control valve to RINSE position and run pump for about 1/2 to 1 minute, and then to resume normal filtering.

VII. WARNING



- This filter operates under high pressure. When any part of the circulating System (e.g., clamp, pump, filter, valves, etc.) is serviced, air can enter the System and become pressurized. Pressurized air can cause the lid or valve to be blown off. Do not repair the filter when it is operating (under pressure) only do so when it is turned off.
- Stop the pump before changing valve position.
- To prevent damage to the pump and for proper operation of the system, Clean pump strainer and skimmer baskets regularly.

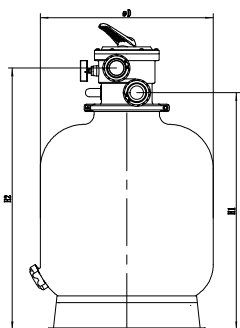


Stop the pump before changing valve position!



Please read and follow this MANUAL before Install and use!

II 、 DIMENSIONS



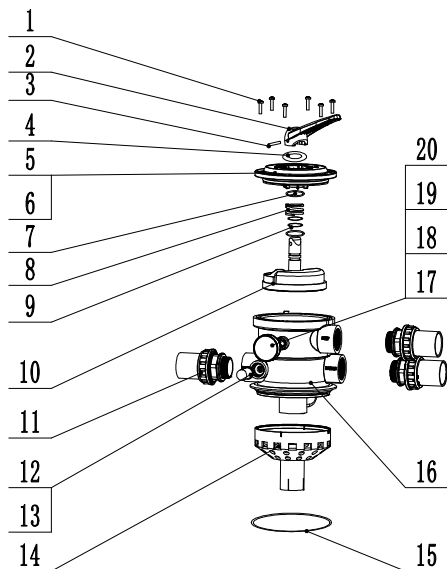
Size	øD(mm)	H1(mm)	H2(mm)
16"	400	590	665
18"	460	635	710
20"	510	700	775
25"	620	900	975



NOTE

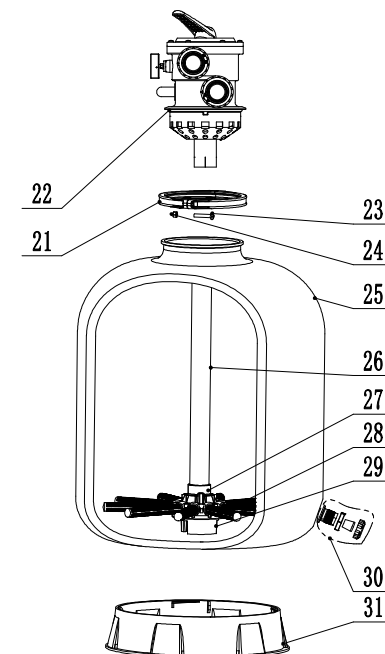
Maximum working pressure:35psi.
Maximum water temperature:43℃.

III 、 REPLACEMENT PARTS OF FILTER φ 350~φ 700



ID	CODE	DISCRIPTION	QTY
1	MG1510000019	Screw	6
2	MG1510000002	Handle	1
3	MG1510000001	Plug	1
4	MG1510000003	Upper gasket	1
5	MG1510000004	Valve cover	1
6	MG1500098179	O-Ring	1
7	MG1410000102	Spring gasket	2
8	MG1510000007	Spring	1
9	MG1510000006	O-Ring	2
10	MG1510000008	Valve	1
11	MG1400180227	1.5-inch Adapter assembly	3
12	MG1510000013	Sight glass	1
13	MG1510000014	Sightglass O-Ring	1
14	MG1510000011	Diffuser	1
15	MG1500098179	O-Ring	1
16	MG1510000009	Body-diffuser assy	1
17	MG1510000018	Pressure gauge	1
18	MG1500120610	Pressure gauge braces	1
19	MG1500120598	O-Ring	1
20	MG1500120597	O-Ring	1
21	MG1410000050	Clamp	2

22	MG1310000005	Muitiport Valve 1.5"	1
23	MG1510000062	Screw-clip	2
24	MG1510000022	Nut-clip	2
25	MG1410000093	Tank 16"	1
	MG1410000092	Tank 18"	1
	MG1410000091	Tank 20"	1
	MG1410000090	Tank 25"	1
26	MG1510000090	Pipe (16")	1
	MG1510000091	Pipe (18")	1
	MG1510000092	Pipe (20")	1
	MG1510000093	Pipe (25")	1
27	MG1410000025	Lateral Assembly	1
28	MG1410000042	Lateral (16", 18")	10
	MG1410000063	Lateral (20", 25")	10
29	MG1410000027	Support pipe (25")	1
29	MG1410000027	Support pipe (16", 18", 20")	1
30	MG1310000017	Drain Assembly	1
31	MG1410000049	Filter support stand (16", 18")	1
	MG1410000053	Filter support stand (20", 25")	1



IV 、 INSTALLATION

Only simple tools (screwdriver and wrenches), plus pipe sealant for plastic adapters, are required to install and service the filter.

- The filter should be placed on a reasonably level surface and provide adequate drainage. Position the filter so that the piping connections, control valve are convenient and accessible for operation and service. The filter should be placed as close to the pool as possible to reduce line loss from pipe friction.
- Loading the sand media. Filter sand media is loaded through the top opening of the filter.
 - Loosen flange clamp and remove filter control valve (if previously installed).
 - Cap internal pipe with plastic cap to prevent sand from entering it.
 - We recommend filling tank approximately half full of water to provide a cushion effect when the filter sand is poured in. This helps protect the under-drain laterals from excessive shock.
 - Carefully pour in correct amount and grade of filter sand. (Be sure center pipe remains centered in opening.) Sand surface should be leveled and up to about the middle of the filter tank. Remove plastic cap from internal pipe.
- Assemble filter control valve to filter tank.
 - Insert filter control valve (with O'ring in place) into the tank neck; beware that the center pipe slips into the hole in the bottom of the valve.
 - Place two plastic clamps around valve flange and tank flange and tighten just enough so that the valve may be rotated on tank for final positioning.
 - Carefully screw pressure gauge (with O'ring in place) into tapped hole in valve body. Do not over-tighten.
 - Connect pump to control valve opening marked PUMP. After connections are made, tighten valve flange clamps with screwdriver, tap around clamp with screwdriver handle to help seat valve flange clamp.
- Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.
- Make electrical connections to pump following pump instructions.
- To prevent water leakage, be sure all pipe connections are tight.

V 、 INSTALL / START-UP OF FILTER

- Be sure correct amount of filter sand is in tank and that all connections have been made and secured.
- Push down control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always push down handle before turning.)
- Start pump according to pump instructions (be sure all suction and return lines are open), allowing the filter tank to fill with water. Once water is flowing out of the remove any impurities or fine sand particles in the sand media.