

- Clean and inspect Ring; re-install on trap cover.
- ✤ Replace trap cover on trap; turn clockwise to tighten cover.

NOTICE: Tighten trap cover by hand only .Pump should prime now. Priming time will depend on vertical length of suction lift and horizontal length of suction piping.

EM-MV40B VALVE REPLACEMENT PARTS

Item	Part No	Description	
1	01013003	Handle (Big)	
2	03018008	8 Pin for Handle	
3	01181001	Washer for Handle	
4	89280107	M6×30 Screw with Nut for Standard Lid	
5	01013004	1.5"Top Mount Valve Standard Lid (Black)	
6		O-Ring for 1.5" Valve Lid	
7	01181002	Washer for Spring	
8		Spring for 1.5" Top Mount Valve	
9	02011022	O-Ring for 1.5" Valve Rotor	
10		1.5" Valve Rotor	
11	02311002	Spider Gasket	
12		1.5"Top Mount Valve Bottom Body Clamp (Black)	
13		1.5" Diffuser	
14	02011001	O-Ring for Diffuser	
15	01013012	1.5"Top Mount Valve Over Drain Diffuser	
16	02011134	O-Ring	
17	02011151	O-Ring for 1.5"Connector	
18	01013015	1.5"Connector (Black)	
19	02011003	O-Ring for 1.5"Union	
20	01171153	1.5"Union (A/E)	
21	01013017	1.5"Union Nut (Black)	
22	01041002	1.5"Union With Sight Glass (short)	
23		1.5"Union With Sight Glass Holder	
24	01111048	Connector for pressure gauge/stopper	
25		Drain Plug with O-ring	
26		Oil Pressure Gauge With O-ring (40Psi)	



Valve Position	Function		
FILTER	Normal Filtration and Vacuuming		
BACKWASH	Cleaning Filter by reversing the flow		
RINSE	Used after backwash to flush dirt from valve		
WASTE	By-passes filter, used for vacuuming to waste or lowering water level		
RECIRCULATE	By-passes filter for circulating water to pool		
CLOSED	Shuts off all flow to filter or pool		

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 WHICH CAN RESULT IN SEVERE INJURY, DEATH, OR PROPERTY DAMAGE TURN PUMP OFF BEFORE CHANGING VALVE POSITION.

TO PREVENT DAMAGE TO THE PUMP AND FOR PROPER OPERATION OF THE SYSTEM,

CLEAN PUMP STRAINER AND SKIMMER BASKETS REGULARLY.

DO NOT UNSCREW SCREWS OF FLANGE CLAMP WHILE PUMP IS RUNNING.



INSTALLATION

* Install filtration system including pump, filter tank and multiport valve. * The filter system should be installed as close as possible to the swimming pool and preferably at a level of 0.50 metres below the surface of the water in the swimming pool. Make sure there is drainage available

at the place where the filter is to be installed. * PUMP

1.Only qualified, licensed personnel should install pump and wiring. 2. Electrical Contractors Please Note: All 220 volt 50Hz pump must be wired to the main power supply trough an approved and correctly rated contractor.

3.Allow for gate valve in suction piping.

4. Pump suction and discharge connections have moulded in thread stops, do not try to screw pipe in beyond these stops.

* FILTER TANK and MULTIPORT VALVE

1.Loading the sand media.Filter sand media is loaded through the top opening of the filter. a.Loosen the plastic clamps from tank neck.

b.Cap internal pipe with plastic cap to prevent sand from entering it. c.We recommend filling tank approximately 1/2 way with water to provide a cushion effect when the filter sand is poured in. This helps protect the under-drain laterals from excessive shock. d.Carefully pour in correct amount and grade of filter sand.Be sure center pipe remains centered in opening. Sand surface should be leveled and should come to about the middle of the filter tank.Remove plastic cap from internal pipe.

2.Assemble filter control valve to filter tank.

a.Insert filter control valve(with O'ring in place)into the tank neck, taking care that the center pipe slips into the hole in the bottom of the valve.

b.Place two plastic clamps around valve flange and tank neck and tighten just enough so that the valve may Be rotated on tank for final positioning.

c.Carefully screw pressure gauge(with O'ring in place)into tapped hole in valve body.Do not over-tighten. d.Connect pump to control valve opening marked PUMP with hose.After connections are made, tighten clamps with screwdrive, tapping around clamp with screwdrive handle to help seat valve flange clamp. 3. Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc. 4. To prevent water leakage, be sure all pipe connections are tight.



FILTER & PUMP COMBO Installation & Operating Instruction







- 2. Depress control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.)
- 3. Prime and start pump. Never tun pump dry! Running pump dry may damage seals, causing leakage and flooding! Fill pump with water before starting motor. (be sure all suction and return lines are open), allowing the filter tank to fill with water. Once water is flowing out of the waste line, run the pump for at least 1 minute. The initial back-washing of the filter is recommended to remove any impurities or fine sand particles in the sand media.
- 4. Turn pump off and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 1/2 to 1 minute. Turn pump off and set valve to FILTER position and restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water.
- 5. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.
- 6. Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to 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).
- NOTE: 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.

REPLACEMENT PARTS OF FILTER

Item Part No.		Description			
1	88280105	1.5"Top Mount Valve			
2 89280101		1.5" Union With Sight Glass, O-Ring			
3	A DESCRIPTION OF A DESC	Oil Pressure Gauge With O-ring (40Psi)			
3	01111048	Connector for pressure gauge			
4	89280102	1.5" Union Set With O-Ring			
5	89032302	FSF500-6W Plastic Hose with Nut			
3	89032402	FSF650-6W Plastic Hose with Nut			
6	02011104	O-Ring for Pump			
7	08030003	FSF500-6W Pump(SC100)			
	08030004	FSF650-6W Pump(SC150)			
8 89032001 Pump Assembly Scree 9 01181052 Fastener for Filter Bas 10 89010107 Water Drain Set 11 01111053 FSF500 - FSF650 Con 12 01172008 V500-V650 Laterals (1)		Pump Assembly Screw			
		Fastener for Filter Base			
		FSF500 - FSF650 Combo Base			
		V500-V650 Laterals (126mm)			
13	89010104	V500 Lateral Assembly with Center Pipe			
13	89010103	V650 Lateral Assembly with Center Pipe			
14	89010111	V500 Filter tank			
14	89010110	V650 Filter tank			
15 02011134 O-Ring for Filte		O-Ring for Filter Neck			
16	89010119	M6*50 Screws With Nut			
16	01271010	Clamp Lock			



		SC PUMP REPLA	ite
Item	Part No.	Description	I
1 01041023		Transparent Lid	
2	02011077	O-Ring for lid	

Item	Part No.	Description	Item	Part No.	Description
1	01041023	Transparent Lid	11	04015001	3/4"Mechanical seal
2	02011077	O-Ring for lid	12	02011089	O-ring for Flange
3	89021701	Basket with Handle	13	01111008	SC Pump Flange
4	89021702	1.5"union set	14	01021014	Ring Lock Nut for Pump Motor
5	89021703	Drain Plug With O-ring	15	02011096	Motor Slinger
6	01111006	SC Pump Body		89021705	Motor SC050(220V/50HZ)
7	02011105	O-ring for Diffuser	16	89021706	Motor SC075(220V/50HZ)
8	01111009	Diffuser		89021707	Motor SC100(220V/50HZ)
9	89021704	Impeller Screw with O-ring		89021708	Motor SC150(220V/50HZ)
	01311009	Impeller SC050(220V/50HZ)		89021709	Motor SC200(220V/50HZ)
	01311010	Impeller SC075(220V/50HZ)	17	01021022	Opening Key
10	01311011	Impeller SC100(220V/50HZ)		01111007	SC Pumps Base
	01311012	Impeller SC150(220V/50HZ)	18		
	01311013	Impeller SC200(220V/50HZ)			

PRIMING PUMP

- * Release all air from filter and piping system.
- ✤ In a flooded suction system (water source higher than pump), pump will prime itself when suction and discharge valves are opened.
- * If pump is not in a flooded suction system, unscrew and remove trap cover; fill trap and pump with water.



CEMENT PARTS

