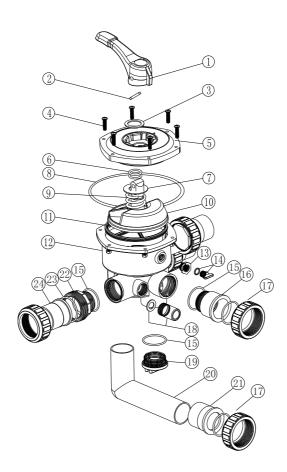


1.5" VALVE REPLACEMENT PARTS

Item	Part number	Description English	
1	01013003	Handle (Small)	
2	03018008	Pin for Handle	
3	01181001	Washer for Handle	
4	89280107	M6*30 Screw with Nut for Standard Lid	6
5	01051010	1.5"Side Mount Valve Standard Lid (White)	1
6	02011022	O-Ring for 1.5" Valve Rotor	
7	01181002	Washer for Spring	
8	02011002	O-Ring for 1.5" Valve Lid	
9	03014001	Spring for 1.5" Simd Mount Valve	
10	01021001	1.5" Valve Rotor	
11	02311002	Spider Gasket	
12	01051021	1.5" Side Mount Valve Bottom Body (White)	1
13	01111048	Connector for Pressure Gauge/Stopper	1
14	89021703	Drain Plug with O-ring	1
15	02011151	O-Ring	5
16	01051022	1.5"Union Tale (White)	1
17	01051014	1.5" Union Nut (White)	5
18	89280104	Sight Glass with O-Ring	1
19	01051023	1.5" Side Mount Valve Plug (White)	1
20	01051193	1.5" Elbow Tube (White) 120mm	1
21	01171002	1.5" Union Adaptor (Metric)	1
22	01051013	1.5"Connector with External Thread(White)	3
23	02011003	O-Ring for Union Adaptor	3
24	01171153	1.5"Union Adaptor	3



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

WARNING

igwedge 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.



FSJ450-6W, FSJ500-6W, FSJ650-6W

FILTER & PUMP COMBO

Installation & Operating Instruction



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 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
- 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 flanae 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.



INSTALL/START-UP OF FILTRATION

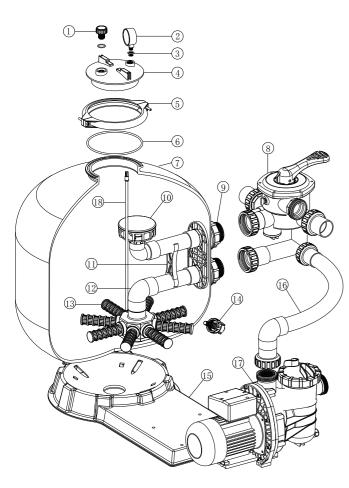
- 1.Be sure correct amount of filter media sand is in tank and that all connections have been made and are secure.
- 2.Depress control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.)
- 3.Prime and start pump. Never run pump 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 -

2

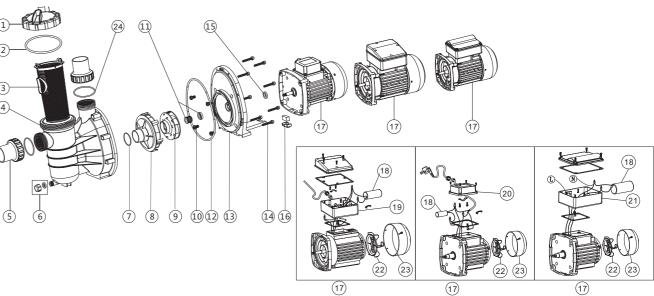
Key NO. Part Number Product Description



key NO.	y NO. I di Nomber i Todoci Description		1 0011		
1	89010701	Air Release Valve			
2	06021002	Plastic Pressure Gauge With O-Ring (40psi)			
3	01111048	Connector for Pressure Gauge/Stopper			
4 01201022 Li		Lid (Transparent)			
_	89010119	M6*50 Screws With Nut	2		
5	01271010	Clamp Lock	2		
6	02011134	O-Ring for Filter Neck	1		
	01331007	SP450 Filter tank			
7	01331008	SP500 Filter tank			
	01331010	SP650 Filter tank			
8	88280805	1.5"Side Mount Valve	1		
9	89010707	Connector Plate Side Mount	1		
	89010708	SP450 Top part of the inner tank system	1		
10	89010709	SP500 Top part of the inner tank system			
	89010710	SP650 Top part of the inner tank system			
11	01111046	Tank System Support			
	89010712	SP450 bottom part of the inner tank system	1		
12	89010713	SP500 bottom part of the inner tank system			
	89010714	SP650 bottom part of the inner tank system	1		
10	01172007	SP450 Laterals (115mm)	8		
13	01172008	SP500-SP650 Laterals (126mm)	8		
14	89011601	Water Drain Set	1		
15	01111053	Base	1		
	89032601	FSJ450-6W Plastic Hose with Nut			
16	89032701	FSJ500-6W Plastic Hose with Nut			
	89032801	FSJ650-6W Plastic Hose with Nut			
	08030008	F\$J450-6W Pump(\$\$050)			
17	08030009	FSJ500-6W Pump(SS075)			
	08030010	FSJ650-6W Pump(SS100)			
	89010716	SP450 Air Vent Pipe			
18	89010717	SP500 Air Vent Pipe			
	89010718	SP650 Air Vent Pipe	1		



SS PUMP REPLACEMENT PARTS



				(17)		(17)	
Key No.	Part No.	Product Description	Qty	Key No.	Part No.	Product Description	Qty
1	01201031	Transparent Lid	1		89022110	Motor \$\$033(220V/50HZ)	1
2	02011074	O-Ring for lid	1		89022105	Motor \$\$050(220V/50HZ)	1
3	01112051	Basket	1		89022106	Motor \$\$075(220V/50HZ)	1
4	01021064	SS Pump Pre-filter	1		89022107	Motor \$\$100(220V/50HZ)	1
5	89280105	1.5"union	2		89022108	Motor \$\$120(220V/50HZ)	1
6	89022402	Drain Plug With O'ring	1		89022201	Motor \$\$020(220V/60HZ)	1
7	02011004	O-Ring for diffuser	1	┥ ⊢	89022202	Motor \$\$033(220V/60HZ)	1
8	01111014	Diffuser	1		89022203	Motor \$\$050(220V/60HZ)	1
01	01311015	Impeller \$\$020(220V/50HZ)	1	17	89022204	Motor \$\$075(220V/60HZ)	1
	01311016	Impeller \$\$033(220V/50HZ)	1		89022205	Motor \$\$100(220V/60HZ)	1
	01311017	Impeller \$\$050(220V/50HZ)	1		89022206	Motor \$\$120(220V/60HZ)	1
	01311018	Impeller \$\$075(220V/50HZ)	1		89022305	Motor \$\$020(110V/60HZ)	1
	01311019	Impeller \$\$100(220V/50HZ)	1		89022306	Motor \$\$033(110V/60HZ)	1
	01311014	Impeller \$\$120(220V/50HZ)	1		89022301	Motor \$\$050(110V/60HZ)	1
	01311023	Impeller \$\$020(220V/60HZ)	1		89022302	Motor \$\$075(110V/60HZ)	1
9	01311024	Impeller \$\$033(220V/60HZ)	1		89022303	Motor \$\$100(110V/60HZ)	1
	01311015	Impeller \$\$050(220V/60HZ)	1		89022304	Motor \$\$120(110V/60HZ)	1
	01311016	Impeller \$\$075(220V/60HZ)	1	18	04016028	Capacitor for \$\$050 Pump	1
	01311017	Impeller \$\$100(220V/60HZ)	1		04016019	Capacitor for \$\$075 Pump	1
	01311018	Impeller \$\$120(220V/60HZ)	1		04016021	Capacitor for \$\$100 Pump	1
	01311023	Impeller \$\$020(110V/60HZ)	1		04016009	Capacitor for \$\$050 Pump	1
	01311024	Impeller \$\$033(110V/60HZ)	1		04016010	Capacitor for \$\$075 Pump	1
	01311015	Impeller \$\$050(110V/60HZ)	1		04016012	Capacitor for \$\$100,	1
	01311016	Impeller \$\$075(110V/60HZ)	1		04016032	Capacitor for \$\$020 Pump	1
	01311017	Impeller \$\$100(110V/60HZ)	1]	04016033	Capacitor for \$\$033 Pump	1
	01311018	Impeller \$\$120(110V/60HZ)	1		04016030	Capacitor for \$\$020 Pump	1
10	89022403	M8*16 Screw with washer	4		04016031	Capacitor for \$\$033 Pump	1
11	04015033	1/2"Mechanical seal	1	19	89022112	Cable Box for \$\$050-\$\$120 Pump	1
12	02011090	O-Ring for Flange	1	20	89022111	Cable Box for SS020-SS033 Pump	1
13	01021065	SS Pump Flange	1	21	89021505	Cable Box for \$\$050-\$\$075 Pump	1
14	03011035	M6*30 Screw	8	00	01031027	Cooling fan for \$\$050-\$\$120 Pump	1
15	02011156	Motor Slinger for \$\$020;\$\$033	1	22	01031026	Cooling fan for SS020-SS033 Pump	1
15	02011153	Motor Slinger for \$\$050-\$\$120	1		01031011	Fan Cover for \$\$020-\$\$033 Pump	1
16	89022404	Motor support	1	23	01031010	Fan Cover for \$\$050-\$\$120 Pump	1
17	89022109	Motor \$\$020(220V/50HZ)	1	24	02011104	O-Ring	2

3