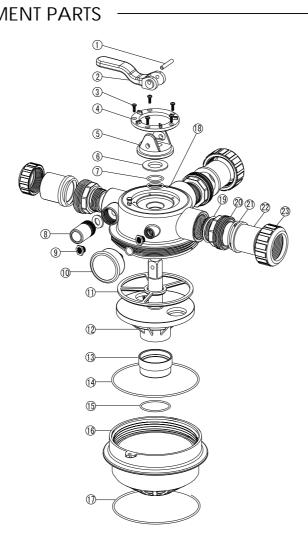
	CEN	1.5" VALVE REPLAC		
]	Qty	Product Description	Part No.	KeyNo.
]	1	Pin for handle	03018009	1
	1	Handle for 1.5" 4 -way Valve	01013036	2
]	5	Ø4*12 Self -drilling screw	03011003	3
]	1	Pressing Ring	01013040	4
]	1	Fixation for 1.5" 4 -way Valve Handle	01013041	5
	1	Washer for 1.5" 4 -way Valve Handle	01181003	6
	2	O-Ring for Rotor	02011017	7
	1	Sight Glass with O-Ring	89280104	8
]	1	Connector for Pressure Gauge /Stopper	01111048	9
]	1	Plastic pressure gauge With O-Ring(40Psi)	06021013	10
]	1	Spider Gasket	02311005	11
]	1	Lid for for 1.5" 4-way Valve Rotor	01013098	
	1	Rotor for 1.5" 4-way Valve	01021003	12
]	1	1.5" 4-way Valve Rotor Connector	01013039	13
	1	O-Ring for Rotor Connector	02011021	14
1	1	O-Ring	02011018	15
	1	Base for 1.5" 4 -way Valve Clamp)	01013038	16
1	1	O-Ring for 1.5" 4 -way Valve T(hread)	02011027	17
	1	O-Ring for 1.5" 4 -way Valve Clamp)	02011028	17
]	1	1.5" 4-way Valve Body	89281301	18
	3	O-Ring for 1.5" Connector	02020013	19
]	3	1.5" Connector Ølack)	01013015	20
	3	O-Ring for 1 .5" Union	02011003	21
	2	1.5" Union (4 /E)	01171153	22
1	3	1.5" Union Nut kolack)	01013017	23



Valve Position	Function
FILTER	Normal Filtration and Vacuuming
BACKWASH	Cleaning Filter by reversing the flow
RINSE	Used after backwash to flush dirt from valve
CLOSED	Shuts off all flow to filter or pool

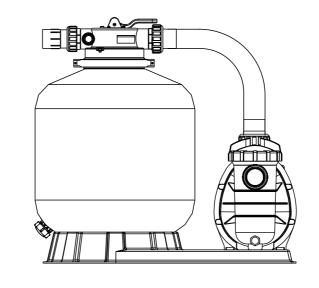
- WARNING

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 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.



FSP350-4W / FSP400-4W / FSP450-4W / FSP500-4W / FSP650-4W



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 at the place where the filter is to be installed. * PUMP
- 1) Only qualified, licensed personnel should install pump and wiring.
- 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.
- 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

of 0.50 metres below the surface of the water in the swimming pool. Make sure there is drainage available

2) Electrical Contractors Please Note: All 220 volt 50Hz pump must be wired to the main power supply

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.

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.

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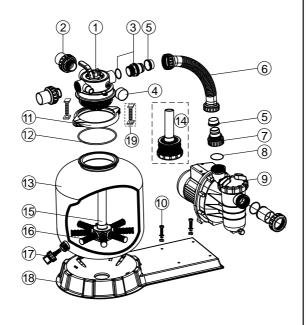
water technology

- 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.

Key No.	Part No.	Description	Qty
1*	88281205	1.5"-4Way Top Mount Valve (Black/White Colour)	1
2*	89280102	1.5" Union Set With O-Ring (Black/ White Colour)	1
3	89030204	Hose adaptor with O-Ring	1
4	06021001	Plastic Pressure Gauge with O-Ring (35psi)	1
4	01111048	Connector for pressure gauge/stopper	1
5	02011026	Sleeve for Hose	2
6	89030301	FSP350-4W Plastic Hose with Nut	1
6	89030401	FSP400-4W Plastic hose with Nut	1
6	89030501	FSP450-4W Plastic hose with Nut	1
6	89030601	FSP500-4W Plastic hose with Nut	1
6	89030701	FSP650-4W Plastic hose with Nut	1
7	01013049	Hose adaptor with nut	1
8	02011104	O-Ring for 1.5" Union	1
9	88022401	Pump 0.20hp, 220V/50Hz, Single Phase	1
9	88022402	Pump 0.33hp, 220V/50Hz, Single Phase	1
9	88022403	Pump 0.50hp, 220V/50Hz, Single Phase	1
9	88022404	Pump 0.75hp, 220V/50Hz, Single Phase	1
9	88022405	Pump 1.00hp, 220V/50Hz, Single Phase	1
10	89032001	Pump Assembly Screw	2
11	01271010	ClampLock	2
12	02011134	O-Ring for Filter Neck	1
13	01331005	P350 Filter Tank	1
13	01331006	P400 Filter tank	1
13	01331007	SP/P450 Filter tank	1
13	01331008	SP/P500 Filter tank	1
13	01331010	SP/P650 Filter tank	1
14	89011602	P350 Lateral Assembly with Center Pipe	1
15	89011603	P400 Lateral Assembly with Center Pipe	1
15	89011604	P450 Lateral Assembly with Center Pipe	1
15	89011605	P500 Lateral Assembly with Center Pipe	1
15	89011606	P650 Lateral Assembly with Center Pipe	1
16	01172007	Laterals(115mm)	8
16	01172008	Laterals (126mm)	8
17	89011601	Water Drain Set	1
18	01111056	FSP/F350-4-6W Combo Base	1
18	01111053	FSP/F400-6W - FSP/F650-6W Combo base	1
19	89010119	M6*50 Screws With Nut	2

REPLACEMENT PARTS OF FILTER



Notes:

1* 88281205B is 1.5"-4Way Top Mount Valve in Black Colour 1* 88281205W is 1.5"-4Way Top Mount Valve in White Colour 2* 89280102B is 1.5" Union Set With O-Ring in Black Colour 2* 89280102W is 1.5" Union Set With O-Ring in White Colour

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Key No.	Part No.	Description	Qty	() 220V () 220V	SOHZ Part No.	1 220V SOHZ (7) 110V 60HZ Description	
-		•	-	-			+
1	01201031	Transparent Lid	1	17	89022201	Motor SD/SQ/SS/ST020(220V/60HZ)	+
2	02010247	O-Ring for Lid	1	17	89022202	Motor SD/SQ/SS/ST033(220V/60HZ)	+
3	01112051	Basket for SS Pump	1	17	89022203	Motor SD/SQ/SS/ST050(220V/60HZ)	+
4	01021064	SS Pump Pre-Filter	1	17	89022204	Motor SD/SQ/SS/ST075(220V/60HZ)	+
5*	89280105	1.5" Union (Black/ White Colour)	2	17	89022205	Motor SD/SQ/SS/ST100(220V/60HZ)	\downarrow
6	89022402	Drain Plug With O'Ring	1	17	89022206	Motor SD/SQ/SS/ST120(220V/60HZ)	\downarrow
7	02011004	O-Ring for Diffuser	1	17	89022305	Motor SD/SQ/SS/ST020(110V/60HZ)	\downarrow
8	01111014	Diffuser	1	17	89022306	Motor SD/SQ/SS/ST033(110V/60HZ)	
9	01311014	Impeller S\$120(220V/50HZ)	1	17	89022301	Motor SD/SQ/SS/ST050(110V/60HZ)	\downarrow
9	01311015	Impeller \$D020/\$D50/\$Q20/\$Q50/\$\$20/\$\$50/\$T20/\$T50	1	17	89022302	Motor SD/SQ/SS/ST075(110V/60HZ)	
9	01311016	Impeller \$D33/\$D75/\$Q33/\$Q75/\$\$33/\$\$75/\$T33/\$T75	1	17	89022303	Motor SD/SQ/SS/ST100(110V/60HZ)	
9	01311017	Impeller SD050/SD100/SQ050/SQ100/SS050/SS100/ST050	1	17	89022304	Motor SD/SQ/SS/ST120(110V/60HZ)	
9	01311018	Impeller SD075/SD120/SQ075/SQ120/SS075/SS120/ST075	1	18	04016028	Capacitor for SS/SD/SQ/ST050 Pump 110V	
9	01311019	Impeller SD100/SQ100/SS100/ST100(220V/50HZ)	1	18	04016019	Capacitor for SC050 & SS/SD/SQ/ST075 Pump 110V	
9	01311023	Impeller SD020/SQ020/SS020/ST020(220V,110V/60HZ)	1	18	04016021	Capacitor for SC075 & SS/SD/SQ/ST100-124 Pump 110V	
9	01311024	Impeller SD033/SQ033/SS033/ST033(220V,110V/60HZ)	1	18	04016009	Capacitor for SS/SD/SQ/SP/ST050 Pump	
10	89022403	M8 x 16 Screw with Washer	4	18	04016010	Capacitor for SS/SD/SQ/SP/ST075 & SC050 Pump	
11	04015033	1/2" Mechanical Seal	1	18	04016012	Capacitor for SS/SD/SQ/SP/ST100-120	
12	02011090	O-Ring for Flange	1	18	04016032	Capacitor for SS/SD/SQ/ST020 Pump 110V	
13	01021065	SS Pump Flange	1	18	04016033	Capacitor for SS/SD/SQ/ST033 Pump 110V	
14	03011035	M6 x 30 Screw	8	18	04016030	Capacitor for SS/SD/SQ/ST020 AMU020P/TP(50/60Hz)	
15	02011156	Motor Slinger	1	18	04016031	Capacitor for SS/SD/SQ/ST033 Pump	
16	89022404	Motor Support	1	19	89022112	Cable Box for SD, SQ, SP, ST050-120 Pump	
17	89022109	Motor \$D020/\$Q020/\$\$020/\$T020(220V/50HZ)	1	20	89022111	Cable Box for SQ/ST/SD020-033, SS020-SS030 Pump	
17	89022110	Motor SD033 (220V/50Hz)	1	21	89021505	Cable Box for SA/ ST/ SD 110V	
17	89022105	Motor SD050/SQ050/SS050/ST050(220V/50HZ)	1	22	01031027	Cooling Fan for \$\$/\$D/\$Q/\$T050-\$\$/\$D/\$Q/\$T120 Pump	
17	89022106	Motor SD075/SQ075/SS075/ST075(220V/50HZ)	1	22	01031026	Cooling Fan for S\$/SD/SQ/ST020-S\$/SD/SQ/ST030 Pump	T
17							+
	89022107	Motor SD100/SQ100/SS100/ST100(220V/50HZ)	1	23	01031011	Fan Cover for SS/SD/SQ/ST020-SS/SD/SQ/ST030 Pump	
17		Motor SD100/SQ100/SS100/ST100(220V/50HZ) Motor SD120/SQ120/SS120/ST120(220V/50HZ)	1	23	01031011 01031010	Fan Cover for SS/SD/SQ/ST020-SS/SD/SQ/ST030 Pump Fan Cover for SQ/SP/SS/SD/ST050-SQ/SP/SS/SD/ST120	

Notes: 5* 89280105B is 1.5" Union in Black Colour 5* 89280105W is 1.5" Union in White Colour



