

After a period of time, the accumulated dirt in the filter causes a resistance to flow, and the flow diminishes. This means it is the 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 out the 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 set the control valve in the FILTER position, to resume normal filtering. NOTE: Turn pump off before changing valve position.

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

- 1) The filter should be placed on a level concrete slab, very firm ground, or equivalent. The filter should place on the right position so that the piping connections, control valve are convenient and accessible for operation and service.
- 2) Loading the sand media. Filter sand media is loaded through the top opening of the filter.
- a) Loose the flange clamp and remove filter control valve (if previously installed).
- b) Cap internal pipe with plastic cap to prevent sand from entering it.
- 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.

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





c) We recommend filling tank approximately 1/2 way with water to provide a cushion effect when the filter sand

maux Models: P350 / P400 / P450 P500 / P650 / P700 (Link by Clamp type Valves) FUNCTION 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 a permanent dirt removing media. When the control valve is in the FILTER position, the pool water which contains suspended dirt particles, is pumped through your 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. It provides for total recirculation of pool water through your filter and piping System.

- 3) Assemble filter control valve into the 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.

water technology

- b) 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.
- 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. After connections are made, tighten valve flange clamps with screwdriver, tapping around clamp with screwdriver handle to help seat valve flange clamp.
- 4) Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.
- 5) Make electrical connections to pump per pump instructions.
- 6) To prevent water leakage, make sure all pipe connections are tight.

MAIN DIMENSION

					1
		High	Diameter	Valve Port Size	Sand
M	odel	mm A	mm B	Inch	kg
P	°350	726	350	1.5"	20
P	9400	757	400	1.5"	35
P	9450	814	449	1.5"	45
P	°500	845	527	1.5"	85
P	°650	950	627	1.5"	145
P	700	1020	703	1.5"	210





INSTALL/START-UP OF FILTER

- 1) Make sure the correct amount of filter media sand is located in the tank and all connections have been connected and secured.
- 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 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 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 of dirt in the filter will cause the pressure to rise and diminish the water flow. 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	88280150B	6 Way 1.5" Valve with 1.5" union set x 3 and pressure gauge (Black)	1
2	89280101B	1.5" Union with Sight Glass, O-Ring (Black)	1
3	89280102B	1.5" Union Set (2 Pieces) with O-Ring (Black)	2
4	06021013	Plastic Pressure Gauge with O-Ring	
4 01111048		Connector for Pressure Gauge/Stopper	
5	03021035	M6 Nut	2
6	89010101	Clamp Lock	1
7	03011095	Screw	2
8	02011134	O-Ring for Filter Neck	1
9	89014021	Filter Tank for P350	1
9	89014022	Filter Tank for P400	1
9	89014023	Filter Tank for P450	1
9	89014024	Filter Tank for P500	1
9	89014025	Filter Tank for P650	1
9	89014026	Filter Tank for P700	1
10	89011602	Lateral Assembly with Center Pipe for P350	1
10	89011603	Lateral Assembly with Center Pipe for P400	1
10	89011604	Lateral Assembly with Center Pipe for P450	1
10	89011605	Lateral Assembly with Center Pipe for P500	1
10	89011606	Lateral Assembly with Center Pipe for P650	1
10	89011607	Lateral Assembly with Center Pipe for P700	1
11*	01172007	Laterals (115mm) for P350/ P400/ P450	8
11*	01172008	Laterals (126mm) for P500/ P650/ P700	8
12	01111052	14" Filter Base for P350	1
12	01111059	16-21" Filter Base P400/ P450	1
12	01111062	21-28" Filter Base P500/ P650/ P700	1
13	89011601	Water Drain Set	1
14	01015006	Sand Diverter (Black) for 1.5"	1

Notes: 11* 01172007 is laterals (115mm) for P350/ P400/ P450 11* 01172008 is laterals (126mm) for P500/ P650/ P700





REPLACEMENT PARTS OF FILTER

