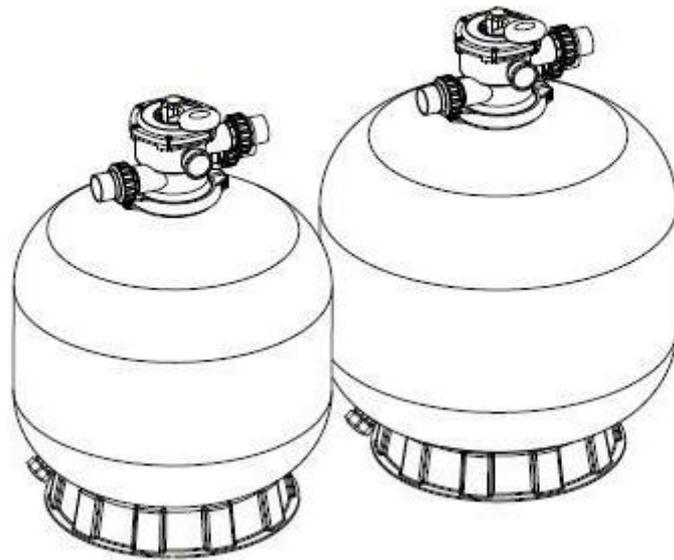




SAND FILTERS

Models: ECSF900 & ECSF1200



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. After a period of time, the accumulated dirt in the filter causes a resistance to flow, and the flow diminishes. 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 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.

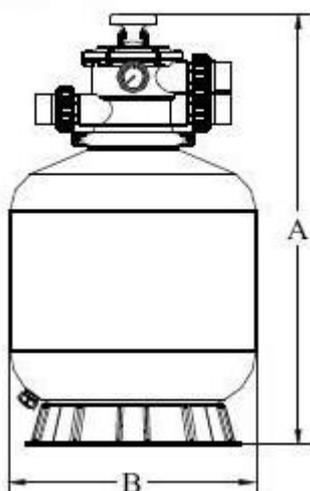
NOTE: Turn pump off before changing valve position.

INSTALLATION

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.
2. Loading the sand media. Filter sand media is loaded through the top opening of the filter.
 - a) Loosen the flange clamp and remove filter control valve (if previously installed).
 - b) Cap internal pipe with plastic cap to prevent sand from entering it.
 - c) We recommend filling the 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.
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.
 - 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



DIMENSION TABLE

MODEL	Height mm A	Diameter mm B	Valve port size mm/inch	Sand kg / bags	Zeolite kg / bags	Coarse Glass kg / bags	Fine Glass kg / bags
ECSF900	1300	900	50 / 2	470 / 24	345 / 24	150 / 10	225 / 15
ECSF1200	1600	1200	50 / 2	860 / 43	645 / 43	270 / 18	405 / 27

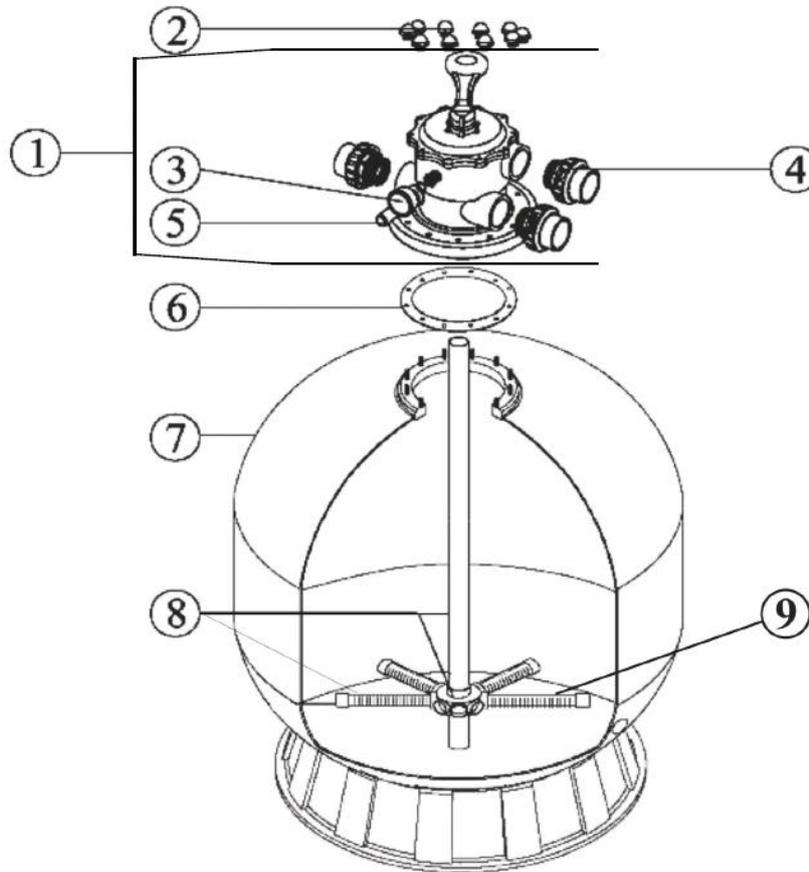
INSTALL/START-UP OF FILTER

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.

REPLACEMENT PARTS OF FILTER

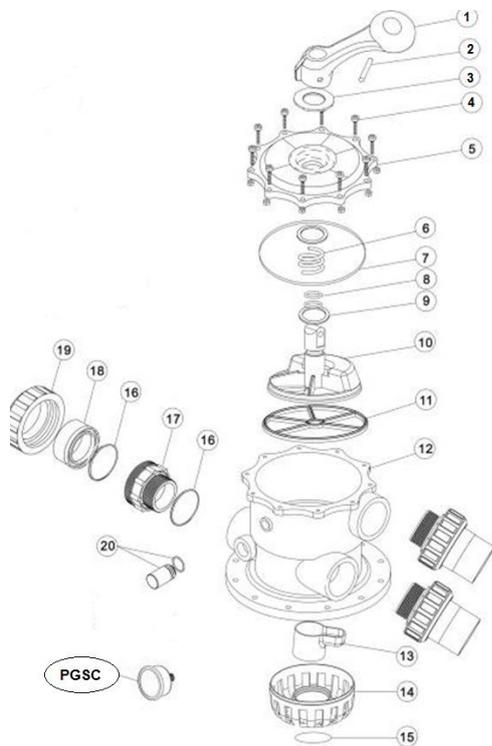
(Diagrams are for illustrative purposes and may vary slightly on actual filter)



Kit Order Number	Part Number	Key #	Part Description	Qty
MPV300	N/A	1	Multiport Valve 50mm BLACK	1
	PGSL	3	MPV Pressure Gauge Oil Filled Lower Mount	1
	MPV318	4	MPV Barrel Union & O-Ring 50mm	3
	MPV321	5	MPV Sight Glass & Gasket	1
-	SF781	2	MPV Tank Nut & Washers	12
-	PGSL	3	MPV Pressure Gauge Oil Filled Lower Mount	1
MPV318	N/A	4	MPV Barrel Union & O-Ring Assembly 50mm	1
MPV321	N/A	5	MPV Sight Glass & Gasket	1
-	MPV322	6	MPV to Tank Gasket	1
SF902	N/A	7	Tank & Base	1
	N/A	8	Centre Pipe, Hub & Lateral Assembly ECSF900	1
SF1200	N/A	8	Centre Pipe, Hub & Lateral Assembly ECSF1200	1
SF903	N/A	9	Lateral Kit suits ECSF900	8
SF1203	N/A	9	Lateral Kit suits ECSF1200	8

REPLACEMENT PARTS OF MULTIPOINT VALVE

Suits ECSF900 and ECSF1200



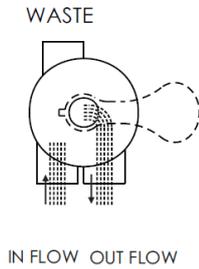
**Complete multipoint valve item
code: MVP300**

1	MPV201	Handle
2	MPV202	Pin Handle
3	MPV303	Washer for handle
4	MPV304	Screw
5	MPV305	2" Top Mount Lid
6	MPV307	O'ring lid
7	MPV308	Washer for Spring
8	MPV309	Spring
9	MPV310	O'ring for Rotor
10	MPV311	Rotor
11	MPV312	Spider Gasket
12	MPV313	Body Black
13	MPV314	Diffuser
14	MPV315	O'ring for Diffuser
15	MPV316	Over Drain Diffuser
16	MPV317	O'ring Union
17	MPV318	Body Union
18	MPV319	Sleeve Union
19	MPV318	Nut Union
20	MPV321	Sight Glass

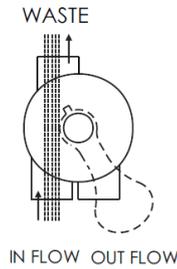
FUNCTIONS OF VALVE POSITIONS

(Diagrams are for illustrative purposes and may vary slightly on actual valve))

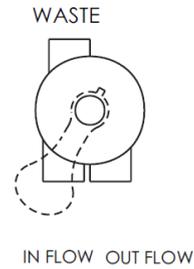
FILTER



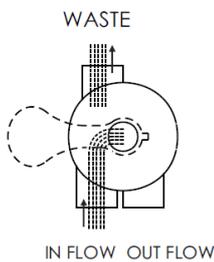
WASTE



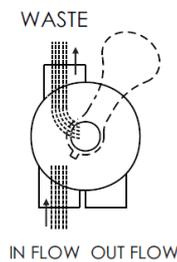
CLOSED



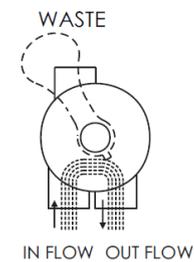
BACKWASH



RINSE



RECIRCULATE



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

GENERAL

1. Pipe tap boss provided for optional influent pressure gauge.
2. SERVICING VALVE (Stop pump, close gate valve in suction & discharge before proceeding):
 - a. Set handle in filter position. b. Remove cover screws. c. Lift cover and key assembly out.

TO ASSEMBLE

1. Place valve key so that wedge opening is at TOP port (handle in filter position). Flat edge of cover screw lug should align with flat edge of body screw lug.
2. Position cover O'ring.
3. Secure assembly to body with cover screws. Tighten cover screws evenly and alternately. Do not over-tighten.

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 PRESSURISED. PRESSURISED 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.

WARRANTY:

- ▲ The filter tank is warranted against manufacturer's defects for a period of 10 years.
- ▲ Internals (laterals and assembly, centre pipe) are warranted against manufacturer's defects for a period of 12 months.
- ▲ The pressure gauge is warranted against manufacturer's defects for a period of 12 months.
- ▲ The multiport valve is warranted against manufacturer's defects for a period of 12 months.

 **EcoNeptune** is brought to you by **POOL PRO PRODUCTS**
For swimming pools

Address	10-12 Cairns Street Loganholme Queensland 4129 Australia
Phone:	1800 14 37 88
Fax:	1800 77 88 20
Web:	www.poolpro.com.au

Warranty

Neptune Sand Filter by Pool Pro

Pool Pro warrants the Neptune Sand Filters only for the original purchaser of the Sand Filter. The warranty is non-transferable. Pool Pro warrants the Sand Filter to be free of manufacturer defects in materials and workmanship, periods outlined below:
Filter tank for a total period of ten (10) years, from the date of purchase.

- "SF" range Praher multiport valve for a total period of two (2) years, from the date of purchase.
- "Eco" range multiport valve for a total period of one (1) year, from the date of purchase.
- Internals (lateral assembly & centre pipe) for a total period of one (1) year, from the date of purchase.
- Pressure gauge for a total period of one (1) year, from the date of purchase.

Warranty does not cover damage caused by negligence, improper use, improper maintenance, lack of care when using the product, incorrect installation, nor does it cover aggressive climate or location. Repairs under warranty can only be performed by an authorised Pool Pro repair agent. Proof of purchase must be shown to validate warranty. Warranty is for domestic applications only. Commercial applications of this product and components are warranted for a period of twelve (12) months from date of purchase, unless otherwise advised in writing by Pool Pro. Pool Pro will not be responsible for costs, losses or damages incurred whether directly or indirectly arising from Pool Pro products. Any action taken upon the product (such as disassembly) by any party not authorised to perform warranty repair on the product will void the warranty. Pool Pro goods are warranted without exclusion to your rights under the Australian Consumer Law. In the unlikely event that you have a warrantable problem with any Pool Pro product, simply contact the place of purchase or contact Pool Pro direct by email at: service@poolpro.com.au



This warranty form and a copy of your original purchase receipt must be lodged within 30 days from date of purchase or any warranty claim may be voided. Post the lower half to:

The POPS Group Pty Ltd (Pool Pro Products)
PO Box 4183
Loganholme DC QLD 4129
Australia

Warranty Registration Form



by



Thank you for purchasing a Pool Pro product!

All fields **MUST** be completed in **BLOCK CAPITALS** and **BLACK INK** and be **LEGIBLE**.

Failure to complete all sections may void any warranty claim.

Please attach a copy of your original purchase receipt when lodging this form.

Item purchased:

- Pump
 Sand Filter
 Pool Cleaner
 Cartridge Filter
 Chlorinator
 Other *If other please describe:* _____

Item Make	
Item Model	
Serial Number (if applicable)	
Purchased From (store name)	
Purchase Date	
Price Paid	
Your Name (first & last names)	
Your Address (incl. suburb & postcode)	
Daytime Telephone Number	
Email Address	

- Tick if you would like to receive updates of our new products as they become available.