



HAYWARD SAND FILTERS



USER'S GUIDE

Fig 1

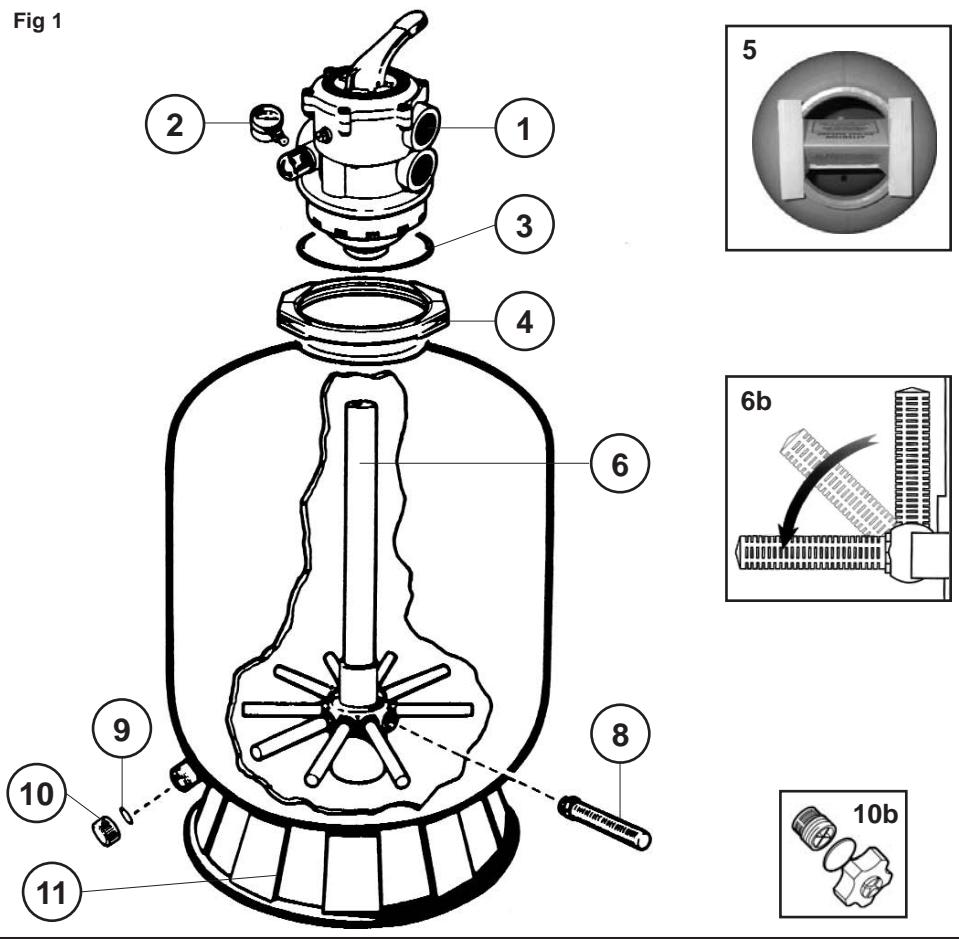


Fig 2

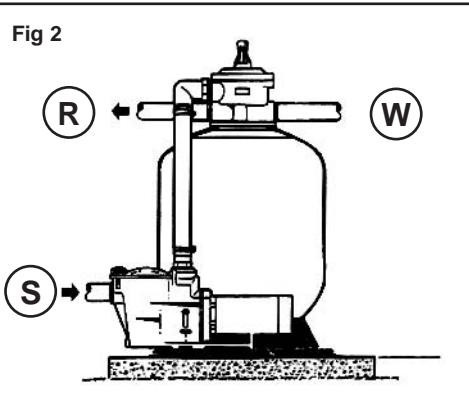
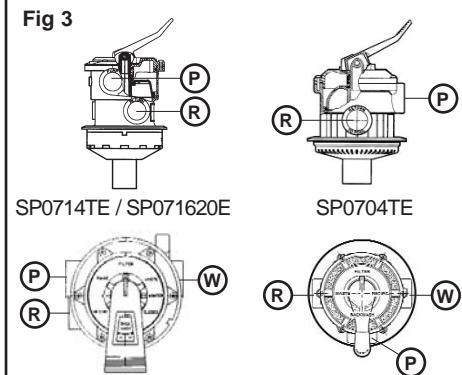


Fig 3





OPERATION

Your filtration system uses special sand designed to trap impurities in the pool water. The sand is poured into the tank and acts as a permanent filtration system. The pump draws in the unfiltered pool water, which contains impurities in suspension and feeds it to the multi-way control valve. When the water flows through the sand, the impurities are trapped there and the water that returns to your pool is filtered.

INSTALLATION

1. Locating the filter

Find a clean, level spot. The top of the filter must be at least 1.5 m distant from the water level. Place the filter so that the piping, the valve (1), and the drain plug (10) are easy to reach. This will make servicing and winterizing easier.

2. Assembling the pump

Assemble the pump and its mount with the filter as indicated by the manufacturer's instructions.

3. Filling the filter

The sand is put in through the opening in the top of the filter.

- Place the centre tube (6) on the bottom of the tank and cover the opening in the top of the tube with funnel (5) provided for the purpose, to prevent any sand getting in it during filling. Make sure that the drain plug (10) is in place. All laterals (8) must be in the down position.

- Half-fill the filter with water, then pour in the required quantity of sand (Cf. table on label).

Check that the centre tube (6) remains straight.

The surface of the sand should be leveled and reach the middle of the filter.

- Remove the funnel (5).

4. Assembling the valve

Place the valve (1), with its gasket (3), on the top of the filter.

- Make sure that the "PUMP" outlet of the valve its towards the pump. Then attach with the clamp (4).

- Remove the black plastic screw on the side of the valve and replace it with the pressure gauge (2). Screw in by hand without forcing.

- Connect the "PUMP" outlet (P) of the valve to the top outlet of the pump as indicated by the manufacturer's instructions

5. Connecting the valve

Then simply connect the pipes from the pool (cf. fig. 2) and from the skimmers (S) to the bottom port of the pump, on the strainer side, the discharge pipes to the valve port marked "RETURN" (R), and the drain connection to the valve port marked "WASTE" (W)

6. Make the electrical connections of the pump as indicated by the manufacturer's instructions.
7. To avoid leaks, make sure that the drain plug (10) is in place and that all connections are tight.

Note 1: Do not force when screwing the connection end fittings into the valve unions.

Note 2: Coat the male threads with Teflon.

STARTING UP

IMPORTANT: ALWAYS STOP THE PUMP BEFORE OPERATING THE MULTI-WAY VALVE.

1. Check that all connections are tight and that the filter contains just the right amount of sand.
2. Set the valve to "BACKWASH". Always lower the handle before turning.
3. Start the pump as indicated by the manufacturer's instructions. Check that water flows normally in the circuit.

WARNING: All suction and discharge valves must be open when the pump is started. Otherwise, there is a risk of property damage, grave injury, or death.

Once the water flows smoothly, let the pump run for at least another 2 minutes. This backwash is recommended to eliminate any impurities or fine particles from the filtering sand.

4. On four-way valves, wait 1 minute.
On six-way valves, stop the pump and set the valve to "RINSE". Restart the pump and let run until the water becomes clear in the valve circulation telltale (about a minute).
5. Stop the pump and set the valve to "FILTER". Restart the pump and filtering starts. Adjust the inlet and outlet valves for the desired water flow.
6. Carefully note the pressure reading at that time and the position of the needle on the pressure gauge. As the filter operates, impurities are retained and the pressure increases in the tank.
When it exceeds the initial pressure (clean filter) by 10 PSI (0.7 bars or kg/cm²), the filter must be backwashed.

Note 1 : When your pool's water is cleaned for the first time, it may be necessary to backwash the filter frequently: the quantity of impurities is likely to be large.

Note 2 : Clean the pre-filters of the pump and skimmers regularly to ensure trouble-free operation of your filtration system.

Note 3 : Installations including heaters or cleaning systems with nozzles or tentacles protruding from the walls are highly sensitive to hydraulic rams because they operate at high pressure. The installer must do everything necessary to prevent hydraulic rams in the installation.

FUNCTIONS OF VALVE AND FILTER

Your system may have a four- or six-way valve (fig. 3).

FILTER

Set the valve to "Filter" for normal filtration (6 to 8 hours a day).

BACKWASH

For cleaning filter. When filter pressure gauge rises 10 PSI (0.7 bars or kg/cm²) above start-up (clean pressure)

Run the pump until the water in the sight glass is clear. Stop the pump about 2 minutes later and set the valve to "Rinse", when this position exists.

RINSE (6-way valve only)

With the valve set to "Rinse", run the pump for about one minute. This evacuates the dirty backwash water to a drain, not the pool. Stop the pump, set back to "Filter", and restart.

WASTE

The water is discharged directly to the sewer without going through the filter: to lower the pool water level and directly eliminate very dirty water when using the vacuum.

RECIRCULATE

The water bypasses the filter, for rapid dispersion of chemicals or for massive chlorination.

CLOSED (6-way valve only)

Cuts off circulation between the filter and the pump.

NEVER USE THIS POSITION WITH THE PUMP RUNNING.

WINTERIZING

1. Completely drain tank by unscrewing drain cap at base of filter tank. Leave cap off during winter.
2. Rotate and leave the valve handle between any position or on "WINTER" position if existing.
3. Drain and winterize pump according to pump instructions.

SERVICE AND REPAIRS

Consult your local dealer. No return may be made directly to the factory without the express written authorization of Hayward Pool Europe.

LIST OF POSSIBLE PROBLEMS

THE FLOW FALLS OFF AND/OR THE PRESSURE GAUGE READING EXCEEDS THE INITIAL PRESSURE BY 10 PSI (0,7 bars or kg/cm ²).	IT BECOMES NECESSARY TO CLEAN MORE AND MORE OFTEN	THE POOL WATER DOES NOT BECOME CLEAR
<p>1. Check and empty the skimmer and pump pre-filter baskets.</p> <p>2. Check that there is nothing pinching or plugging the water intake and return hoses.</p> <p>3. Check that there is no leak in the water intake hose (shown up by air bubbles in the water returned to the pool).</p> <p>4. Backwash the filter.</p>	<p>1. Check the pool for algae and if necessary add disinfectant.</p> <p>2. Check that the disinfectant level and pH are correct (adjust if necessary).</p> <p>3. Check that the surface of the sand has not solidified or become clogged (if so, remove 2 or 3 cm of sand).</p>	<p>1. Check the disinfectant level, pH, and total alkalinity and adjust if necessary.</p> <p>2. Make sure that the filtration flow is correct.</p> <p>3. Run the filter longer.</p> <p>4. Make sure that the valve is set to "Filter".</p> <p>5. Make sure that your installation is properly connected.</p>

SERVICE AND REPAIRS

Consult your local dealer. No return may be made directly to the factory without the express written authorization of Hayward Pool Europe.

If malfunctioning continues, or for any other operating fault, contact your retailer-installer.

It is expressly stipulated that HAYWARD cannot be held responsible for any damage caused by its equipment if such damage is caused by non-conforming repairs whenever, during the replacement of parts, HAYWARD original parts were not used and if repair was not performed in conformity with HAYWARD instructions or if the information in this guide was not complied with.

This is also valid for any addition of parts and accessories other than those recommended by HAYWARD.

WARRANTY CONDITIONS :

HAYWARD warrants its products free from defects in material and workmanship for a period of one year from the date of purchase. A purchase proof with its date must be enclosed for any request for warranty. We invite you to keep your receipt.

HAYWARD warranty is limited to the replacement or repair, at its option, of defective products that have been used in normal conditions and according to the instructions leaflet, with no change in the product and that have been working only with genuine HAYWARD parts. Frost and chemical reaction damages are excluded of the warranty.

HAYWARD will not be responsible for any other costs (removal, labor...), neither direct or indirect damages caused by malfunction of a product.

To initiate a warranty claim and ask for repair or replacement of a product, please contact your dealer. No shipment to our factory will be accepted without our preliminary written acceptance.

Wear parts are excluded of the warranty.

Product with warranty extension : Polyethylene tank (sand filter) 5 year.

REPLACEMENT PARTS

N°	Model - Modèle - Modelo - Modell - Modello - Model - Modelo							
	S0166T	S0210T	S0244T	S0246T	S0310TE	S0310TXE	S0360TE	S0360TXE
1	SP0714TE	SP0714TE	SP0714TE	SP0714TE	SP071620E	SP071620E	SP071620E	SP071620E
2	ECX271261	ECX271261	ECX271261	ECX271261	ECX271261	ECX271261	ECX271261	ECX271261
3	GMX0600F	GMX0600F	GMX0600F	GMX0600F	GMX0600F	GMX0600F	GMX0600F	GMX0600F
4	GMX0600NM	GMX0600NM	GMX0600NM	GMX0600NM	SX0310N	SX0310N	SX0310N	SX0310N
5	SCN202S	SCN202S	SCN202S	SCN202S	SCN202S	SCN202S	SCN202S	SCN202S
6b	GMX0152DA2	SX0210DA2	SX0244DA2	SX0244DA2	SX0310DA2	SX0310DA2	SX0360DA2	SX0360DA2
8	SX0200QN	SX0240DN	SX0240DN	SX0240DN	SX0310HN	SX0310HN	SX0310HN	SX0310HN
9	SX0180G	SX0180G	SX0180G	-	SX0180G	-	SX0180G	-
10	SX0180H	SX0180H	SX0180H	-	SX0180H	-	SX0180H	-
10b	SX0180LA	SX0180LA	-	SX0180LA	SX0180LA	SX0180LA	SX0180LA	SX0180LA
11	SX0164B	SX0200J	SX0200J	SX0200J	SX0310J	SX0310J	SX0310J	SX0310J





Specifications

Maximum Working Pressure = 3.5 bars

Model	Filtration Area	Design Flow Rate	Pressure loss at design flow rate	Sugg. Clearance		Media required	
	m ²	m ³ /h	Bars	Side cm	Above cm	Type mm	Amount kg
S0166T	0.13	6	0.14	45	45	0,45 - 0,55	50
S0210T	0.22	11	0.14	45	45	0,45 - 0,55	100
S0244T	0.28	14	0.21	45	45	0,45 - 0,55	150
S0246T	0.28	14	0.21	45	45	0,45 - 0,55	150
S0310TE	0.45	22	0.33	45	45	0,45 - 0,55	250
S0310TXE	0.45	22	0.33	45	45	0,45 - 0,55	250
S0360TE	0.66	30	0.60	45	45	0,45 - 0,55	350
S0360TXE	0.66	30	0.60	45	45	0,45 - 0,55	350



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