HAYWARD®

ProSeries™

High Rate Sand Filters

Owner's Manual

Contents

S180T

Hayward Industries
1415 Vantage Park Dr., Suite 400
Charlotte, NC 28203
Phone: (908) 355-7995
www.hayward.com

IMPORTANT SAFETY INSTRUCTIONS

⚠ This is the safety-alert symbol. When you see this symbol on equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury:

⚠ **WARNING** – warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

⚠ **CAUTION** – warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

NOTICE – indicates special instructions that are important but not related to hazards.

READ AND FOLLOW ALL INSTRUCTIONS

⚠ **WARNING** – Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

⚠ **WARNING** – **Suction Entrapment Hazard.** Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment: Hair can become entangled in suction outlet cover.

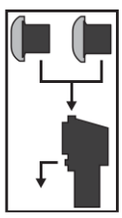
Limb Entrapment: A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment: A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/ Disembowelment: A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment.

Mechanical Entrapment: There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ **WARNING** – **To Reduce the risk of Entrapment Hazards:**



- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.

- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the listed flow rating.
- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- Install suction outlets in accordance with latest ASME, APSP Standards and CPSC guidelines. Follow all applicable National, State, and Local codes.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

⚠ **WARNING** – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ **WARNING** – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ **WARNING** – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ **CAUTION** – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children.

⚠ **WARNING** – Never operate or test the circulation system at more than 50 PSI.

⚠ **WARNING** – Never change the filter control valve position while the pump is running.

⚠ **WARNING** – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.

⚠ **WARNING** – **Hazardous Pressure.** Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control

valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.

⚠ **WARNING** – **Separation Hazard.** Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body. **Never operate or test the circulation system at more than 50 PSI. Do not purge the system with compressed air.** Purging the system with compressed air can cause components to explode, with risk of sever injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

⚠ **WARNING** – **Risk of Electric Shock.** All electrical wiring MUST be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment. To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment. Do NOT ground to a gas supply line.

⚠ **WARNING** – **Risk of Electric Shock.** Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard. Electrical ground all electrical equipment before connecting to electrical power supply.

⚠ **WARNING** – **Risk of Electric Shock.** Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG [8.4 mm^2] (No. 6 AWG [13.3 mm^2] for Canada) solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. [1.5 m] of inside walls of swimming pool, spa, or hot tub. **IMPORTANT** - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ **WARNING** – **Risk of Electric Shock.** The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test

the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

⚠ **CAUTION** – Hayward® pumps are intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

⚠ **WARNING** – **Risk of Hyperthermia.** To avoid hyperthermia the following "Safety Rules for Hot Tubs" are recommended by the U.S. Consumer Product Safety Commission.

1. Spa or hot tub water temperatures should never exceed 104°F [40°C]. A temperature of 100°F [38°C] is considered safe for a healthy adult. Special caution is suggested for young children. Prolonged immersion in hot water can induce hyperthermia.
2. Drinking of alcoholic beverages before or during spa or hot tub use can cause drowsiness, which could lead to unconsciousness and subsequently result in drowning.
3. Pregnant women beware! Soaking in water above 100°F [38°C] can cause fetal damage during the first three months of pregnancy (resulting in the birth of a brain-damaged or deformed child). Pregnant women should adhere to the 100°F [38°C] maximum rule.
4. Before entering the spa or hot tub, users should check the water temperature with an accurate thermometer; spa or hot tub thermostats may err in regulating water temperatures by as much as 4°F [2.2°C].
5. Persons taking medications, which induce drowsiness, such as tranquilizers, antihistamines or anticoagulants, should not use spas or hot tubs.
6. If the pool/spa is used for therapy, it should be done with the advice of a physician. Always stir pool/ spa water before entering to mix in any hot surface layer of water that might exceed healthful temperature limits and cause injury. Do not tamper with controls, because scalding can result if safety controls are not in proper working order.
7. Persons with a medical history of heart disease, circulatory problems, diabetes or blood pressure problems should obtain a physician's advice before using spas or hot tubs.
8. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6°F [37°C]. The symptoms of Hyperthermia include: drowsiness, lethargy, dizziness, fainting, and an increase in the internal temperature of the body.

The effects of Hyperthermia include:

1. Unawareness of impending danger.
2. Failure to perceive heat.
3. Failure to recognize the need to leave the spa.
4. Physical inability to exit the spa.
5. Fetal damage in pregnant women.
6. Unconsciousness resulting in danger of drowning.

Introduction

Your Hayward Pro Series™ high-rate sand filter is a high performance, totally corrosion-proof filter that blends superior flow characteristics and features with ease of operation. It represents the very latest in high-rate sand filter technology. It is virtually foolproof in design and operation and when installed, operated and maintained according to instructions, your filter will produce clear, sparkling water with only minimal attention and care.

How It Works

Your filter uses special filter sand to remove dirt particles from pool water. Filter sand is loaded into the filter tank and functions as the dirt removing media. The pool water, which contains suspended dirt particles, is pumped through your piping system and is automatically directed by the filter control valve to the top of the filter tank. As the pool water is pumped through the filter sand, 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 and provides 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 (backwash) 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 backwashed (cleaned) of dirt, the control valve is manually re-sequenced to Rinse, and then Filter, to resume normal filtering.

Installation

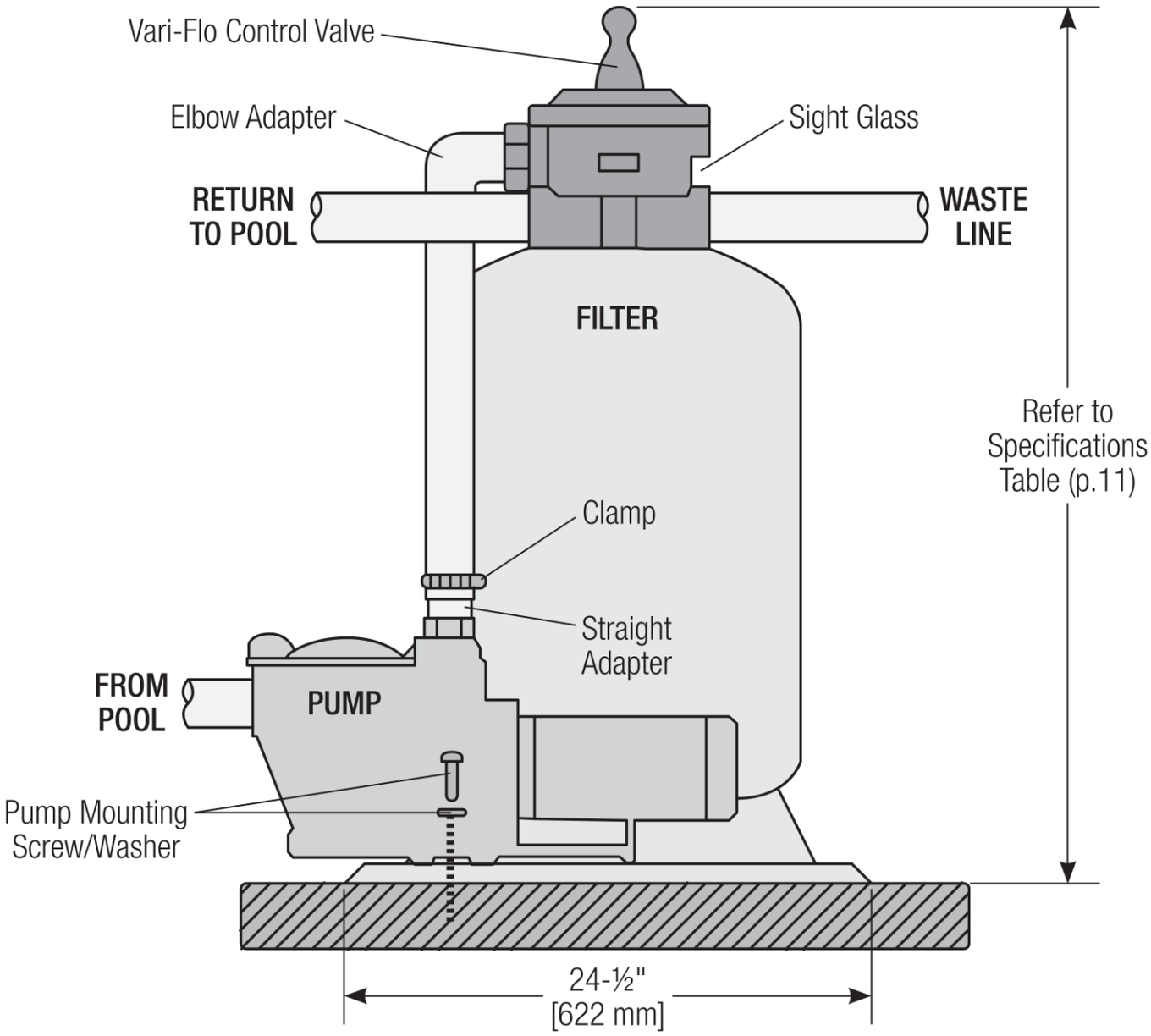
Only simple tools (screwdriver and wrenches), plus pipe sealant for plastic adapters, are required to install and/or service the filter.

Installation Steps

1. The filter system should be installed, not more than 6 feet above pool water level, on a level concrete slab, very firm ground, or equivalent, as recommended by your pool dealer. Position the filter so that the piping connections, control valve and winter drain is accessible for operation, service and winterizing.

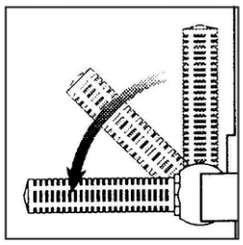
2. Assemble pump mounting base, (if supplied) to the filter according to instructions packed with the base.

   Refer to the image of the following page for typical installation.



3. Loading sand media. Filter sand media is loaded through the top opening of the filter.
   a. Loosen flange clamp and remove Filter Control Valve (if previously installed). Cap internal pipe with sand shield to prevent sand from entering it. Be sure pipe is securely in place in bottom underdrain hub.
   b. We recommend filling tank approximately 1/2 way with water to provide a cushioning effect when the filter sand is poured in. This helps protect the underdrain laterals from excessive shock. (Be sure the winter drain cap is securely in place on drain pipe).

      NOTICE - Check to confirm all laterals are in the down position before loading with sand as shown to the right.



   c. Carefully pour in correct amount and grade of filter sand, as specified in the Specifications table on page 11. (Be sure center pipe remains centered in opening). Because filter sand is not all the same. THE LEVEL OF SAND MUST REMAIN A MINIMUM OF 10" FROM THE TOP. Remove sand shield from internal pipe.

4. Assemble Filter Control Valve to filter tank.
   a. Loosely pre-assemble both halves of the clamp with one screw and one nut, turning the nut 2 or 3 turns. Do not tighten. Wipe filter flange clean.
   b. Insert Filter Control Valve (with valve/flange O-ring in place) into the tank neck, taking care that the center pipe slips into the hole in the bottom of the valve. Install clamp around tank and valve flange and assemble second screw and nut. Tighten just enough so that the valve may be rotated on tank for final positioning.
   c. Wrap two turns of Teflon pipe sealant tape manufactured for plastic pipe on the ¼" NPT male end of gauge. Carefully screw pressure gauge, into 1/4"NPT tapped hole in valve body. Do not over tighten.
   d. Connect pump to control valve opening marked PUMP according to instructions. After connections are made, tighten valve flange clamp with screwdriver, tapping around clamp with screwdriver handle to help seat valve flange clamp.

5. Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.

6. Make electrical connections to pump per pump instructions.

7. To prevent water leakage, be sure winter drain cap is securely in place and all pipe connections are tight.

Initial Start-Up of Filter

1. Be sure correct amount of filter sand media is in tank and that all connections have been made and are secure.

2. Depress Vari-Flo control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.) **For new concrete or gunite pools, or where there is a large amount of plaster dust or debris—start filter in FILTER position (not BACKWASH) to prevent clogging of under drain laterals.**

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.

⚠ WARNING – Separation Hazard. All suction and discharge valves must be open when starting the system. Failure to do so could cause severe personal injury.

Once water flow is steady out the waste line, run the pump for at least 2 minutes. 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, set valve to FILTER position and restart pump. Your filter is now operating in the normal filter mode, filtering 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 8-10 PSI (0.55-0.69 BAR) higher than the initial "clean" pressure you noted, it is time to backwash (clean) the filter (see BACKWASH under Filter Control Valve Functions.)

   NOTICE - 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.

IMPORTANT: To prevent unnecessary strain on piping system and valves, always shut off pump before switching Filter Control Valve positions.

NOTICE - To prevent damage to the pump and filter and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

Operation

Filter Control Valve Functions

FILTER: Set valve to FILTER for normal filtering. Also use for regular vacuuming.

BACKWASH: For cleaning filter. When filter pressure gauge rises 8-10 PSI (0.55-0.69 BAR) above start-up (clean pressure):

Stop the pump, set valve to BACKWASH. Start pump and backwash until water in sight glass is clear. Approximately 2 minutes or less depending on dirt accumulation. Proceed to RINSE.

RINSE: After backwashing, with pump off, set valve to RINSE. Start pump and operate for about 1/2 to 1 minute. This ensures that all dirty water from backwashing is rinsed out of the filter to waste, preventing possible return to the pool. Stop pump, set valve to FILTER, and start pump for normal filtering.

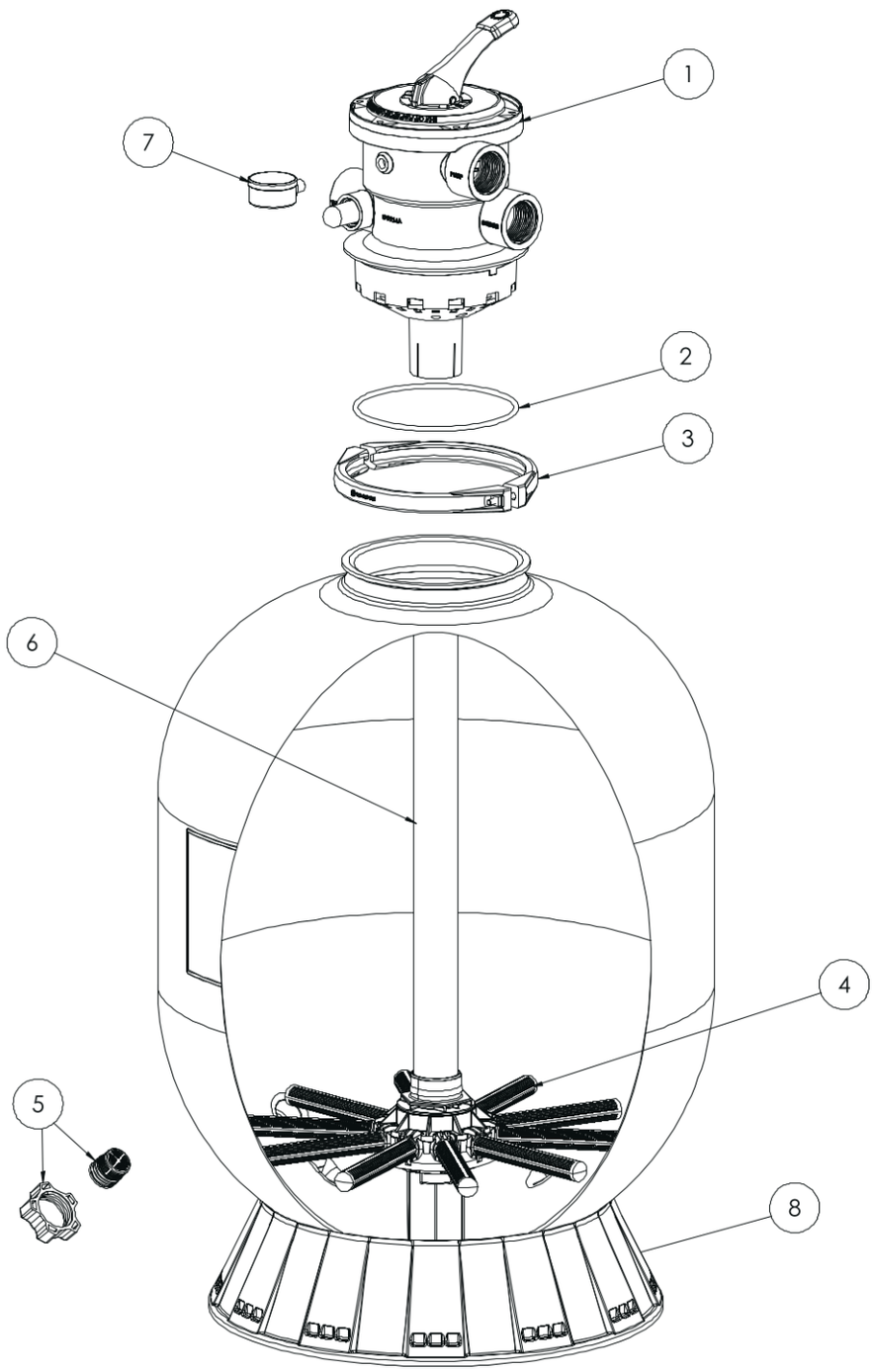
WASTE: To bypass filter for draining or lowering water level and for vacuuming heavy debris directly to waste. RECIRCULATE—Water is recirculated through the pool system, bypassing the filter.

CLOSED: Shuts off flow from pump to filter. VACUUMING—Vacuuming can be performed directly into the filter. When vacuuming heavy debris loads, set valve to WASTE position to bypass the filter and vacuum directly out to waste.

Winterization

1. Completely drain tank by unscrewing drain cap at base of filter tank. Leave cap off during winter.
2. Depress Vari-Flo control valve handle and rotate so as to set pointer on valve top between any two positions. This will allow water to drain from the valve. Leave valve in this "inactive" position.
3. Drain and winterize pump according to pump instructions.

Replacement Parts



Ref No	Part No	Description	Qty
1a	SP0714T	1.5" VariFlo XL Control Valve	1
1b	SP071620T	2" VariFlo XL Control Valve	1
2	GMX600F	Valve/Tank Oring	1
3a	GMX600NM	Flange Clamp (Plastic)	1
3b	SX310N	Flange Clamp (Stainless Steel)	1
4a	SX200QNRPAK10	16", 18", 21", 22" Lateral ribbed (10)	1
4b	SX240DNRPAK10	24", 27" lateral ribbed end (10)	1
4c	SX310HNRPAK10	30", 36" lateral ribbed end (10)	1
5a	SX180HG	Drain Cap Kit (Round)	1
5b	SX180LA	Drain Cap Assy	1
6a	SX164DAS	Folding Lateral Assembly 16" with standpipe	1
6b	SX180DAS	Folding Lateral Assembly 18" with standpipe	1
6c	SX210DAS	Folding Lateral Assembly 21" with standpipe	1
6d	SX210DA2S	Folding lateral assembly 21" T2 with 2"standpipe	1
6e	SX220DAS	Folding Lateral Assembly 22" with standpipe	1
6f	SX220DA2S	Folding lateral assembly 22" T2 with 2" standpipe	1
6g	SX244DAS	Folding Lateral Assembly 24", with standpipe	1
6h	SX244DA2XS	Folding Lateral Assembly 24" T2 with 2" standpipe	1
6j	SX270DA2S	Folding lateral Assembly 27" with standpipe	1
6k	SX270DA2XS	Folding Lateral Assembly 27" T2 with 2" standpipe	1
6m	SX310DA2S	Folding Lateral Assembly 31" with standpipe	1
6n	SX360DAS	Folding Lateral Assembly 36" with standpipe	1
7	ECX270861	Pressure Gauge	1
8a	SX164B	14" and 16" Filter Base	1
8b	SX200J	18"-27" Filter Base	1
8c	SX310J	30"&36" Filter Base	1
9a	SX164C	14" and 16" Pump Base	1
9b	SX180J	System base 18", 21", 23"	1
10	ECX1108A	Pump mounting screw kit	1
11a	SX160Z4KIT	26" Hose Kit (14", 16" system)	1
11b	SX201Z1KIT	33" Hose Kit (18", 21", 23" System)	1

Maintenance

Consult your local authorized Hayward dealer or service center. No returns may be made directly to the factory without the expressed authorization of Hayward Pool Products, Inc.

Performance

Pure, clear swimming pool water is a combination of two factors—adequate filtration and proper water chemistry balance. One without the other will not give the clean water you desire.

Your filter system is designed for continuous operation. However, this is not necessary for most swimming pools. You can determine your filter operation schedule based on your pool size and usage. Be sure to operate your filtration system long enough each day to obtain at least one complete turnover of your pool water.

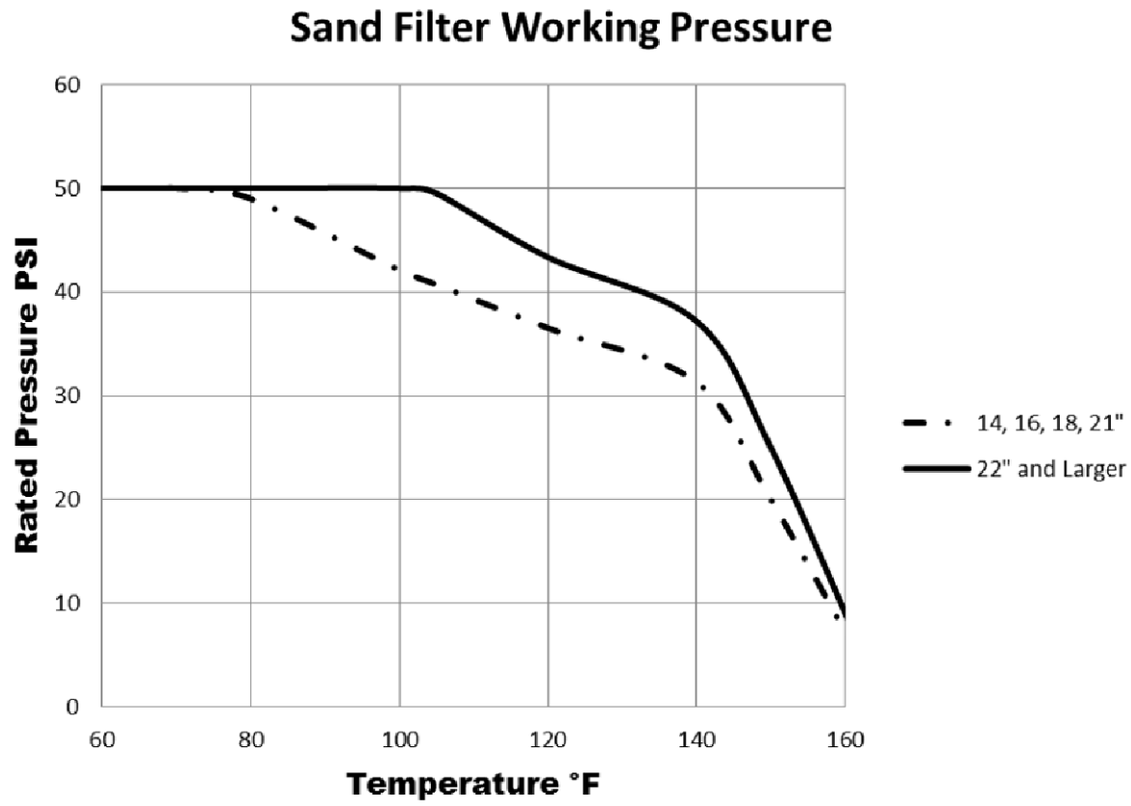
To properly sanitize your pool, maintain a free chlorine level of 1 to 3 ppm and a pH range of 7.2 to 7.6. Insufficient chlorine or an out of balance pH level will permit algae and bacteria to grow in your pool and make it difficult for your filter to properly clean the pool water.

Specifications													
Model No.	Effective Filtration Area		Maximum Working Pressure		Required Clearance				Media Capacity			Installed Height	
					Side		Above		Type	Amount			
	ft^2	m^2	PSI	BAR	in.	mm	in.	mm	Filter Sand*	lbs	kg	in.	mm
S144T	1.1	.10	50	3.45	18	460	18	460	0.45 - 0.55 mm	50	22	32	815
S166T	1.4	.13	50	3.45	18	460	18	460	0.45 - 0.55 mm	100	45	33	840
S180T	1.8	.17	50	3.45	18	460	18	460	0.45 - 0.55 mm	150	68	35	890
S210T	2.2	.20	50	3.45	18	460	18	460	0.45 - 0.55 mm	200	90	38	965
S210T2	2.2	.20	50	3.45	18	460	18	460	0.45 - 0.55 mm	200	90	38	965
S220T	2.6	.25	50	3.45	18	460	18	460	0.45 - 0.55 mm	250	115	41	1040
S220T2	2.6	.25	50	3.45	18	460	18	460	0.45 - 0.55 mm	250	115	41	1040
S244T	3.1	.29	50	3.45	18	460	18	460	0.45 - 0.55 mm	300	135	42	1070
S244T2	3.1	.29	50	3.45	18	460	18	460	0.45 - 0.55 mm	300	135	42	1070
S270T	3.7	.34	50	3.45	18	460	18	460	0.45 - 0.55 mm	350	160	43	1090
S270T2	3.7	.34	50	3.45	18	460	18	460	0.45 - 0.55 mm	350	160	43	1090
S310T2	4.9	.46	50	3.45	18	460	18	460	0.45 - 0.55 mm	500	225	48	1220
S360T2	7.1	.66	50	3.45	18	460	18	460	0.45 - 0.55 mm	700	315	53	1350

*Also known as No. 20 Silica Pool

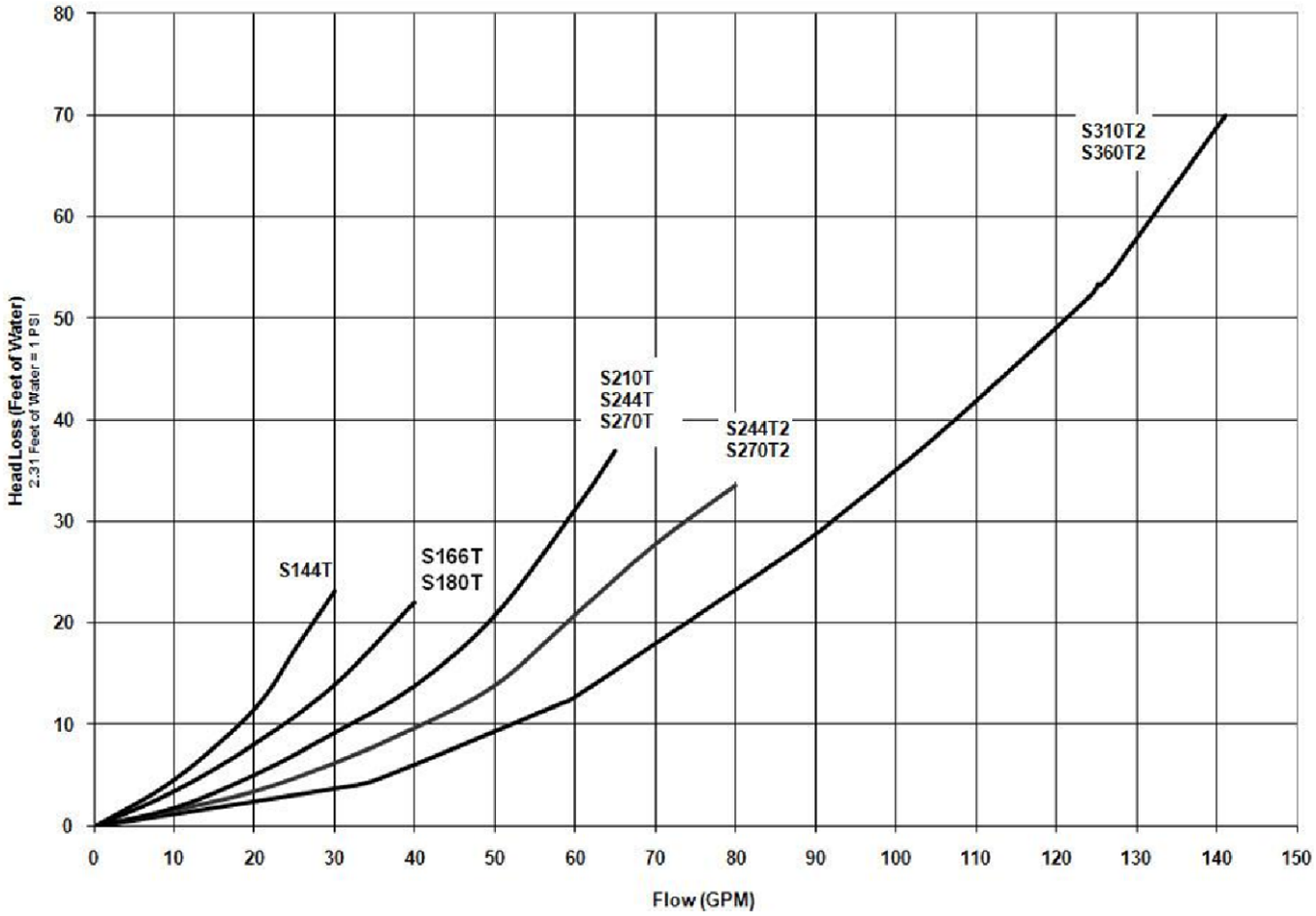
Maximum Recommended System Flow Rate By Pipe Size					
Pipe Size in. [mm]	Flow Rate GPM [LPM]	Pipe Size in. [mm]	Flow Rate GPM [LPM]	Pipe Size in. [mm]	Flow Rate GPM [LPM]
1 [32]	20 [75]	1-½ [50]	45 [170]	2-½ [75]	110 [415]
1-¼ [40]	30 [110]	2 [63]	80 [300]	3 [90]	160 [600]

Suggested Pool Chemistry	
pH	7.2 to 7.6
Total Alkalinity	80 to 120 ppm
Calcium Hardness	200 to 400 ppm
Combined Chlorine	0.2 ppm Maximum
Chlorine (Stabilized)	1.0 to 3.0 ppm
Stabilizer (Cyanuric Acid)	60 to 80 ppm



HAYWARD®

HEAD LOSS CURVES



Troubleshooting

Problem Solving List			
Problem	Low Water Flow	Short Filter Cycles	Pool Water Won't Clear Up
Remedy	• Check skimmer and pump strainer baskets for debris. • Check for restrictions in intake and discharge lines. • Check for air leak in intake line (indicated by bubbles returning to pool). • Backwash filter.	• Check for algae in pool and superchlorinate as required. • Be sure chlorine and pH levels are in proper range (adjust as required). • Check surface of filter sand for crusting or caking (remove 1 " of sand if necessary).	• Check chlorine, pH and total alkalinity levels and adjust as required. • Be sure flow rate through filter is sufficient. • Operate filter for longer periods. • Be sure Vari-Flo valve is set on "Filter" position.

HAYWARD® Pool Products Limited Warranty

Hayward Pool Products, Inc., warrants the components of this product to be free from defects in materials and workmanship during the warranty period. Please visit https://hayward.com/support/resources/warranty for product warranty details.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care, Acts of God or as specified in installation and operations manual. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center, please visit us at https://hayward.com/dealerlocator.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Hayward Industries, 1415 Vantage Park Dr., Suite 400, Charlotte, NC 28203

***Supersedes all previous publications**

Register your product at https://hayward.com/support/resources/warranty/product-registration

For further information or consumer technical support, visit our website at www.hayward.com

HAYWARD®

HAYWARD®

PowerFlo LX™ / PowerFlo II™ / EP Pump Series

Owner's Manual

REGISTER NOW
to extend your **WARRANTY**
see back of manual for details

Contents

INSTALLATION, OPERATION, & PARTS

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

⚠ This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ **WARNING** warns about hazards that **could** cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

⚠ **CAUTION** warns about hazards that **will** or **can** cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The **NOTICE** label indicates special instructions that are important but not related to hazards.

Hayward Pool Products
400 Connell Drive, Suite 6100, Berkeley Heights, NJ 07922
Phone: (908) 355-7995
www.hayward.com

⚠ WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

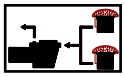
⚠ WARNING – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment- Hair can become entangled in suction outlet cover.
Limb Entrapment- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.
Body Suction Entrapment- A negative pressure applied to a large portion of the body or limbs can result in an entrapment.
Evisceration/ Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment.
Mechanical Entrapment- There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING - To Reduce the risk of Entrapment Hazards:

- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating as listed on the suction outlet cover.
- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.



⚠ WARNING – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ CAUTION – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children.

⚠ WARNING – Never operate or test the circulation system at more than 30 PSI.

⚠ WARNING – Never change the filter control valve position while the pump is running.

⚠ WARNING – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.

⚠ WARNING – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.

⚠ WARNING – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body.

⚠ WARNING – Risk of Electric Shock. All electrical wiring MUST be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment.

⚠ WARNING – To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

⚠ WARNING – Electrical ground all electrical equipment before connecting to electrical power supply. Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard.

⚠ WARNING – Do NOT ground to a gas supply line.

⚠ WARNING – To avoid dangerous or fatal electrical shock, **TURN OFF POWER** to all electrical equipment before working on electrical connections.

⚠ WARNING – Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm^2) [No. 6 AWG (13.3 mm^2) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.
IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ WARNING – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

⚠ WARNING – Risk of Electric Shock . The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

⚠ CAUTION – This pump is intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS

Installation Instructions

Pump Location

The PowerFlo LX™ and EP series pumps MUST be installed below the pool water line (see Figure to right).

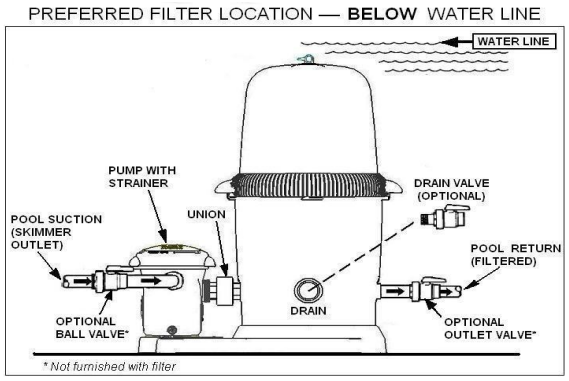
Self-priming PowerFlo II™ pumps may be installed up to four (4) feet above the pool water line.

Install pump on a firm, level base or pad to meet all local and national codes. The field supplied base or pad must be level and vibration-free.

Pump motors require free circulation of air for cooling.

Do NOT install pump in a damp or non-ventilated location.

Though the pump is designed for outdoor use, it is strongly advised to protect the electrical components from the weather. Select a well-drained area, one that will not flood when it rains.



NOTE: ANSI/NSPI-4 Article V, standard for above-ground and on-ground pools, advises that components such as the filtration system, pumps and heater be positioned so as to prevent their being used as a means of access to the pool by young children.

Pump Mounting

Fasten pump to base or pad with screws or bolts to further reduce vibration and stress on pipe or hose joints. The base MUST be solid - level - rigid - vibration free.

Pump mount must:

- Allow pump inlet height to be as close to water level as possible.
- Allow use of short, direct suction pipe (to reduce friction losses).
- Allow for ball valves in suction and outlet piping.
- Be protected from excess moisture and flooding.
- Allow adequate access for servicing pump and piping.

Plumbing

Use **TFE tape** to seal threaded connections on molded plastic components. All plastic fittings must be new or thoroughly cleaned before use. **NOTE: Do NOT use Plumber's Pipe Dope as it may cause cracking of the plastic components.**

When applying **TFE tape** to plastic threads, wrap the entire threaded portion of the male fitting with one to two layers of tape. Wind the tape clockwise as you face the open end of the fitting, beginning at the end of the fitting.

The pump suction and outlet ports have molded-in thread stops. Do **NOT** attempt to force hose connector fitting past this stop. It is only necessary to tighten fittings enough to prevent leakage. Tighten fitting by hand and then use a tool to engage fitting an additional 1 ½ turns. Use care when using TFE tape as friction is reduced considerably; **do NOT over-tighten** fitting or you may cause damage. If leaks occur, remove connector, clean off old Teflon tape, re-wrap with one to two additional layers of TFE tape, and re-install connector.

Piping - Flexible Hose, PVC, or Reinforced Hose are all acceptable piping methods

For pump outlet use 1-1/2" PVC pipe or reinforced hose. For pump suction on ALL models, use 1-1/2" reinforced hose. Increase size if a long run is needed. For pipe larger than port, use reducing fitting in strainer port.

To avoid pump strain, support suction and outlet independently. Place supports near pump. To avoid strain left by a gap at last connection, start all piping at pump and run pipe **AWAY** from pump.

NEVER use suction pipe **SMALLER** than pump suction connections. Suction pipe inlet must be lower than pump inlet port.

Fittings

Fittings restrict flow. For better efficiency, use the fewest possible fittings. Avoid fittings that could cause an air trap.

Electrical

⚠ WARNING – Ground motor before connecting to electrical power supply. Failure to ground pump motor can cause serious or fatal electrical shock hazard.

⚠ WARNING – Do NOT ground to a gas supply line.

⚠ WARNING – To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.

⚠ WARNING – Ground Fault Circuit Interrupter (GFCI) tripping indicates electrical problem. If GFCI trips and won't reset, consult electrician to inspect and repair electrical system.

⚠ WARNING – Fire Hazard. Match supply voltage to motor nameplate voltage.

Insure that the electrical supply available agrees with the motor's voltage, phase, and cycle, and that the wire size is adequate for the H.P. (KW) rating and distance from the power source.

NOTE: All electrical wiring MUST be performed by a qualified professional, and MUST conform to local codes and regulations.

Voltage

Voltage at motor **MUST NOT** be more than 10% above or below motor name plate rated voltage, or motor may overheat, causing overload tripping and reduced component life. If voltage is less than 90% or more than 110% of rated voltage when motor is running at full load, consult power company.

Grounding/Bonding

Install, ground, bond, and wire motor according to local or national electrical code requirements.

Permanently ground motor. Use green ground terminal provided under motor canopy or access place; use size and type wire required by code. Connect motor ground terminal to electrical service ground.

Bond motor to pool structure. Use a solid copper conductor, size or larger. Run wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm^2) solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of swimming pool, spa, or hot tub, and to all electrical equipment, metal piping or conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.

Wiring

Pump MUST be permanently connected to circuit. If other lights or appliances are also on the same circuit, be sure to add their amp loads before figuring wire and circuit breaker sizes. (NOTE: If unsure how to do this or if this is confusing, consult a licensed electrician). Use the load circuit breaker as the Master On-Off switch.

Install a Ground Fault Circuit Interrupter (GFCI) in circuit; it will sense a short-circuit to ground and disconnect power before it becomes dangerous to pool users. For size of GFCI required and test procedures for GFCI, see manufacturer's instructions.

In case of a power outage, check GFCI for tripping, which will prevent normal pump operation. Reset if necessary.

NOTE: If you do not use conduit when wiring motor, be sure to seal wire opening on end of motor to prevent dirt, bugs, etc., from entering.

New Installation – Start-Up & Operation

Prior to Start-Up

Fill strainer housing with water to suction pipe level. **NEVER operate the pump without water.** Water acts as a coolant and lubricant for the mechanical shaft seal.

⚠ WARNING – NEVER run pump dry. Running pump dry may damage seals, causing leakage and flooding. Fill strainer housing with water before starting motor.

⚠ CAUTION – Do NOT add chemicals to pool/spa system directly in front of pump suction. Adding undiluted chemicals may damage pump and voids warranty.

⚠ CAUTION – Before removing strainer cover:

1. **STOP PUMP before proceeding.**
2. **CLOSE VALVES in suction and outlet pipes.**
3. **RELEASE ALL PRESSURE from pump and piping system.**

⚠ WARNING – If pump is being pressure tested, be sure pressure has been released before removing strainer cover.

⚠ WARNING – Do NOT block pump suction. To do so with body may cause fatal injury. Small children using pool MUST always have close adult supervision.

Priming Pump

- Open all valves before starting system.
- Release all air from filter and piping system. **See filter owner's manual.**
- When water source is higher than the pump, pump will prime itself when suction and outlet valves are opened. If water source is lower than the pump, unscrew and remove strainer cover; fill strainer and pump with water.
- Clean and lubricate strainer cover O-ring with "Jack's 327" each time it is removed.
- Clean and inspect O-ring; re-install on strainer cover.
- Replace strainer cover on strainer housing; turn clockwise to tighten cover.

  NOTE: Tighten strainer cover by hand only (no wrenches) ¼ turn.

Pump should prime. Priming time will depend on vertical length of suction lift and horizontal length of suction pipe. If pump does NOT prime within ten minutes, stop motor and determine cause. Be sure all suction and discharge valves are open when pump is running. See Troubleshooting Guide.

Storage/Winterization

⚠ WARNING – Explosion Hazard. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

⚠ CAUTION – Allowing the pump to freeze will void the warranty.

⚠ CAUTION – Do NOT use anti-freeze solutions (except propylene glycol) in your pool/spa system. Propylene glycol is non-toxic and will not damage plastic system components; other anti-freezes are highly toxic and may damage plastic components in the system.

Drain all water from pump and piping when expecting freezing temperatures or when storing pump for a long time (see instructions below). Gravity drain system as far as possible.

Keep motor dry and covered during storage. To avoid condensation/corrosion problems, do NOT cover or wrap pump with plastic film or bags.

Storing Pump for Winterization

⚠ WARNING – To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor before draining pump.

1. Drain water level below all inlets to the pool.
2. Remove drain plug from bottom of strainer body.
3. Disconnect pump from base.
4. Once the pump is removed of water, re-install the strainer lid and strainer plug.
5. Store pump in a dry enclosure.

Start-Up for Winterized Equipment

1. Follow filter manufacturer's instructions for reactivation of the filter.
2. Inspect all electrical wiring for damage or deterioration over the shutdown period. Have a qualified serviceman repair/replace wiring as needed.
3. Securely mount pump to base.
4. Install all intake and output fittings and piping.
5. Refill pool to proper water level.
6. Prime pump according to instructions.

Shaft Seal Change Instructions

IMPORTANT SAFETY INSTRUCTIONS
PLEASE READ AND FOLLOW ALL INSTRUCTIONS

When servicing electrical equipment, basic safety precautions should always be observed including the following. Failure to follow instructions may result in injury.

⚠ WARNING – To reduce risk of injury, do not permit children to use this product.

A. Disconnect all electrical power service to pump before beginning shaft seal replacement.
B. Only qualified personnel should attempt rotary seal replacement. Contact your local authorized Hayward Dealer or service center if you have any questions.
C. The National Electrical Code requires either a three (3) foot maximum twist-lock cord set with a GFCI protected receptacle or hard wire (conduit) connection for swimming pool pump installation. Do not use extension cords.

Exercise extreme care in handling both the rotating and the stationary sections of the two-part replacement seal. Foreign matter or improper handling will easily scratch the graphite and ceramic sealing surfaces.

1. Shut off water flow to pump by closing appropriate valves or by plugging both the skimmer outlet port and return port to pool. Disconnect piping or hoses from the motor/pump assembly.
2. Remove the strainer by disengaging and removing the strainer cover. Remove the basket. Lift up on strainer 'C' clip and remove. Finally, slide strainer housing forward and remove.
3. Unscrew eight (8) screws and remove pump cover, exposing the impeller.
4. Remove the canopy or the shaft cover plate from the end of motor opposite the impeller.
5. Hold the motor shaft securely by either inserting a screwdriver in slot at end of shaft or by using an open-end wrench to engage the flat surfaces provided near end of motor shaft. Rotate the impeller ina a counterclockwise direction and remove it from the motor shaft.
6. Note how the steel spring section of the old seal is positioned on impeller hub and remove it by pulling from the impeller.
7. Loosen four (4) motor through bolts from the back of motor and remove pump housing/shroud from the front of the motor.
8. Remove the ceramic stationary portion of the old seal by pressing the white ceramic seat out of the pump housing recess. If assembly is tight, tap lightly from the "motor" side.
9. Clean and lubricate the impeller stem and the pump housing recess with a dilute solution of non-granulated liquid-type soap. Do not use petroleum or silicone lubricants as these can contribute to seal leakage.
10. Press the new rotating portion of the seal assembly onto the impeller stem with the polished black graphite surface facing away from the impeller.
11. Carefully press the stationary ceramic portion of the seal into the recess of the pump housing/shroud, with the polished flat surface facing out.
12. Carefully insert the motor shaft through the pump housing/shroud and align with white ceramic stationary seal assembly in place and secure the motor to pump housing/shroud with four (4) motor through bolts removed in step #7. Be sure motor base and pump discharge port are positioned properly. Alternately tighten the motor through bolts until the pump housing is secure. Make certain motor shaft turns freely before proceeding.
13. Screw the impeller (clockwise) with the rotating portion of seal in place onto the motor shaft. Hand-tighten the impeller in place.
14. Clean (replace if necessary) the O-ring and replace on pump cover. Assemble the pump cover to the pump housing/shroud with the eight (8) screws removed in step #3. Tighten screws alternately and evenly.
15. Re-assemble strainer by sliding strainer housing onto pump cover. Install strainer 'C' clip by pushing clip down onto grooved pump cover coupling. Insert basket and fasten strainer cover.
16. Reconnect pump to the piping or hoses provided. Open all valves and make sure that the pump strainer housing is full of water before restarting the pump.

Troubleshooting

Motor Will NOT Start – Check For:

1. Improper or loose wiring connections; open switches or relays; tripped circuit breakers, GFCI's, or blown fuses.
2. Manually check rotation of motor shaft for free movement and lack of obstruction. (See steps 4 & 5 of "Shaft Seal Change Instructions" in this manual.)
3. If you have a timer, be certain it is working properly. Bypass it if necessary.

Motor Shuts OFF – Check For:

1. Undersized wiring; loose connections; etc.
2. Low voltage at motor or power drop (frequently caused by undersized wiring or extension cord use).
3. Mechanical binding and electrical overload.

NOTE: Your Hayward pump motor is equipped with an "automatic thermal overload protector." The motor will automatically shut off if power supply drops before heat damage can build up causing windings to burn out. The "thermal overload protector" will allow the motor to automatically restart once the motor has cooled, provided the power source is again up to proper levels. It will continue to cut On/Off until the problem is corrected. **Be sure to correct cause of overheating.**

Motor Hums, But Does NOT Start – Check For:

1. Centrifugal switch stuck in OPEN position.
2. Binding of motor shaft.

Pump Won't Prime

1. Make sure pump/strainer housing is filled with water and the cover O-ring is clean, also be sure it is properly seated in the cover O-ring groove. Make sure strainer cover is locked firmly in position and lubricated with "Jack's 327."
2. Make sure all suction and discharge valves are fully open and not blocked, that pool water level is at proper level, and that skimmer weir is not hung up or binded on skimmer wall.
3. Block off to determine if pump will develop a vacuum. You should have 5"-6" of vacuum at the strainer cover **(Only your pool dealer can confirm this with a vacuum gauge)**. You may be able to check by removing the skimmer basket and holding your hand over the bottom port with skimmer full and pump running. If no suction is felt, check for line blockage.
    a. If pump develops a vacuum, check for blocked suction line or dirty strainer basket, an air leak in the suction piping may be the cause.
    b. If pump does not develop a vacuum and pump has sufficient "priming water":
        i. Re-check strainer housing cover and all threaded connections for suction leaks. Check if all hose clamps are tight.
        ii. Check voltage to ensure that the motor is rotating at full RPM's.
        iii. Open housing cover and check for clogging or obstruction in suction. Check impeller for debris.
        iv. Remove and replace shaft seal only if it is leaking.

Low Flow – Generally, Check For:

1. Clogged or restricted strainer or suction line; undersized pool piping.
2. Plugged or restricted discharge line of filter, valve partially closed (high gauge reading).
   How to correct: Sand filters – backwash as per manufacturer's instructions; D.E. filters – backwash as per manufacturer's instructions; Cartridge filters – clean or replace cartridge.
3. Air leak in suction (bubbles issuing from return fittings). Re-tighten using Teflon tape.
4. Plugged or restricted impeller or impeller sheared off. Replace including new seal assembly.

Noisy Pump – Check For:

1. Air leak in suction piping causing rumbling in pump.
2. Cavitation due to restricted or undersized suction line or leak at any joint, low water level in pool, and unrestricted discharge return lines. Correct suction condition or throttle return lines, if practical. Holding hand over return fitting will sometimes prove this point or putting in a smaller eyeball fitting.
3. Vibration due to improper mounting, etc. Put a rubber pad under metal mounting feet.
4. Foreign matter in pump housing. Loose stones/debris hitting impeller could be cause, remove any of the above.
5. Motor bearings noisy from normal wear, rust, overheating, or concentration of chemicals causing seal damage which will allow chlorinated water to seep into bearings wiping out the grease causing bearing to whine. All seal leaks should be replaced at once.
6. Equipment base vibrating.

Maintenance

- Clean strainer basket regularly. Do NOT strike basket to clean. Inspect strainer cover gasket regularly and replace as necessary.
- Hayward pumps have self-lubricating motor bearings and shaft seals. No lubrication is necessary.
- Keep motor clean. Insure air vents are free from obstruction.
- Occasionally, shaft seals must be replaced, due to wear or damage. See “Shaft Seal Change Instructions” in this manual.

DATE OF INSTALLATION _____

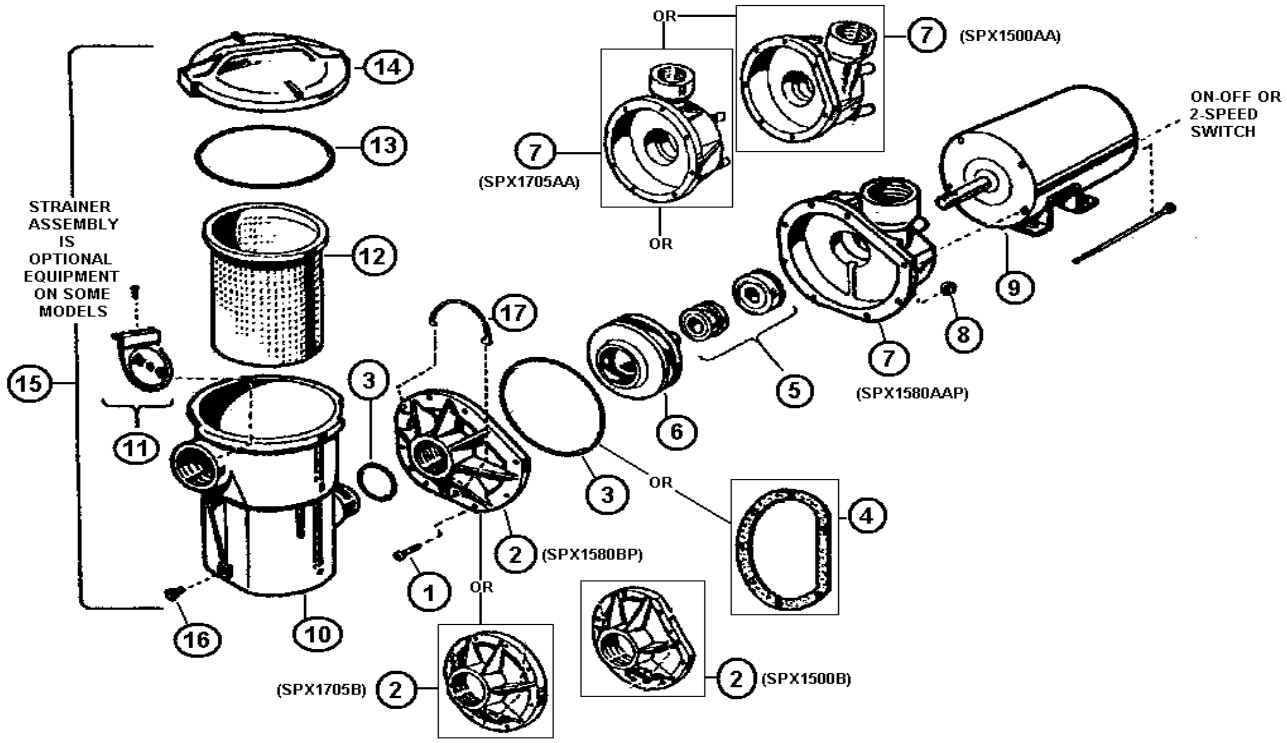
INITIAL PRESSURE GAUGE READING (CLEAN FILTER) _____

PUMP MODEL _____ HORSEPOWER _____

FILTER MODEL _____ SERIAL NUMBER _____

Replacement Parts

Parts Diagram



PARTS LISTING				
Ref. No.	Description	Model No. SP1540C	Model No. SP1580, SP1580X15, SW1585X20, SW1585X25, EP1550LX	Model No. SP1750, 1775, 1780
1	Housing Bolt, No. 10-24 Hex Head	SPX1500N2 (7 Req'd.)	SPX1500N2 (8 Req'd.)	SPX1500N2 (6 Req'd.)
2	Housing Cover	SPX1500B	SPX1580BP	SPX1705B
3	Housing O-Ring	SPX1580Z1	SPX1580Z1	SPX1580Z1
4	Housing Gasket	SPX1500H	SPX1500H	SPX1500H
5	Seal Assembly	SPX1500KA	SPX1500KA	SPX1500KA
6	Impeller	Refer to Part No. on Original Equipment	Refer to Part No. on Original Equipment	Refer to Part No. on Original Equipment
7	Pump Housing	SPX1500AA	SPX1580AAP	SPX1705AA
8	Housing Nut, No. 10-24 Hex Head	SPX1500Y2 (7 Req'd.)	SPX1500Y2 (8 Req'd.)	SPX1500Y2 (6 Req'd.)
	Motor (for SP1540C) - 40 GPM	SPX1540Z1E	----	----
	Motor (for SP1750) - 1/2 HP	----	----	SPX1500Z1E
	Motor (for SP1775) - 3/4 HP	----	----	SPX1510Z1E*
	Motor (for SP1780) - 1 HP	----	----	SPX1510Z1XE*
	Motor (for SP1580) - 1 HP	----	SPX1510Z1XE	----
	Motor (for SP1580X15) - 1-1/2 HP	----	SPX1515Z1E	----
	Motor (for SW1585X20) - 2 HP	----	SPX1520Z1ESC	----
9	Motor (for SW1585X25) - 2-1/2 HP	----	SPX1524Z1ESC	----
10	Strainer Housing with Basket	SPX1500CAP	SPX1500CAP	SPX1500CAP
11	Check Valve Assembly (Optional)	SPX1500RA	SPX1500RA	SPX1500RA
12	Strainer Basket	SPX1250RA	SPX1500LX	SPX1250RA
13	Strainer Cover O-Ring	SPX1500P	SPX1500P	SPX1500P
14	Strainer Cover with O-Ring	SPX1500D2A	SPX1500D2A	SPX1500D2A
15	Complete Strainer Assembly	SP1516	SP1516	SP1516
16	Drain Plug with Gasket	SPX1700FG	SPX1700FG	SPX1700FG
17	C-Clip	SPX1515C	SPX1515C	SPX1515C
18	6' Cord Set (14/3)	SPX1250WA	SPX1250WA	SPX1250WA
19	3' Cord Set (12/3) Twist Lock	SPX1550WA1	SPX1550WA1	SPX1550WA1

* To order 2-speed motor, change "1" in suffix of model number to a "2" (i.e. SPX1510Z2E)
*All Twist Lock versions for each pump have “TL” at end of part number (i.e. SP1580TL)

HAYWARD® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its products to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase, when used in single family residential applications.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center please visit us at www.hayward.com.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its' pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Hayward Pool Products
400 Connell Drive, Ste 6100
Berkeley Heights, NJ 07922

***Supersedes all previous publications.**

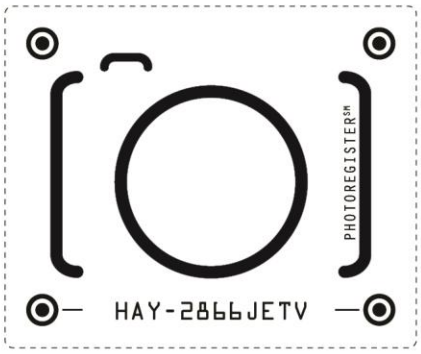
▲Retain this Warranty Certificate (upper portion) in a safe and convenient location for your records.

HAYWARD®

90 DAY EXTENDED WARRANTY*
REGISTER WITH YOUR SMARTPHONE

PROTECT YOUR INVESTMENT IN 2 EASY STEPS

1. TAKE A PHOTO
Take a photo of the camera icon



2. SEND IT IN
Send it in using **one** of the methods below

SMARTPHONE
Text a photo of the camera icon to **71403**

OR

ONLINE
Visit **Hayward.com/Warranty**

OR

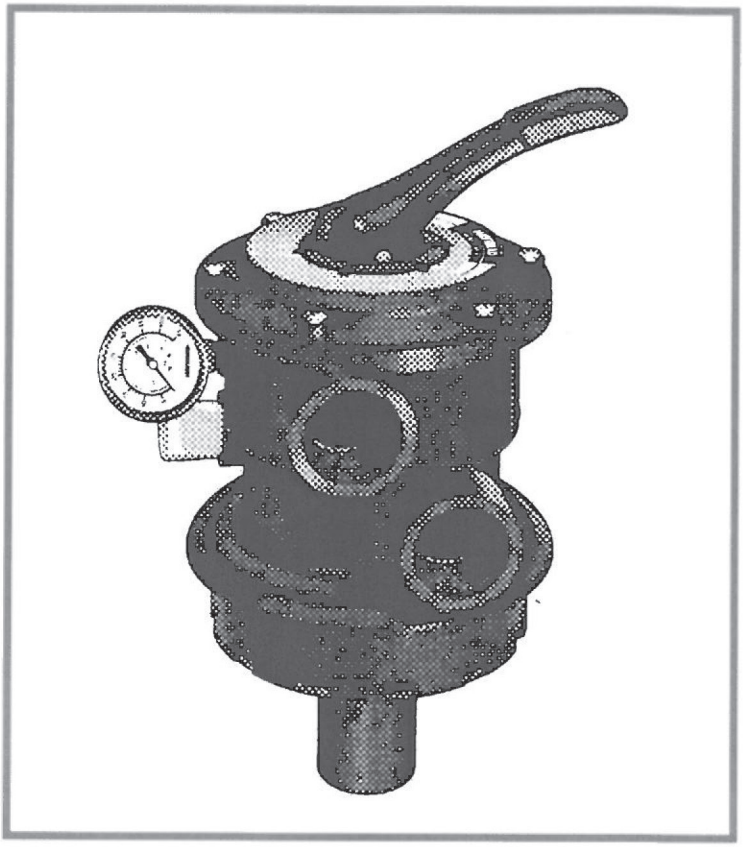
MESSENGER
Send photo to **photoregister**

*Extended warranty is in addition to applicable product warranty and is for parts only, labor not included.
Need help? Visit photoregister.com/help or text HELP to 71403.

HAYWARD®

IS0714BKN Rev. E

SERIES Vari-Flo® XL



OWNER'S MANUAL

Models **SP0714TC/SP0714TE/SP0714T**

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

⚠ This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ WARNING warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

⚠ CAUTION warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The NOTICE label indicates special instructions that are important but not related to hazards.

Hayward Pool Products
620 Division Street, Elizabeth, NJ 07207
Phone: (908) 351.5400
www.hayward.com

⚠ WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

⚠ WARNING – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment- Hair can become entangled in suction outlet cover.

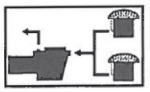
Limb Entrapment- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment- A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/ Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment.

Mechanical Entrapment- There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING - To Reduce the risk of Entrapment Hazards:



- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating of as listed on Table 1.
- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

⚠ WARNING – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ CAUTION – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children.

⚠ WARNING – Never operate or test the circulation system at more than 50 PSI.

⚠ WARNING – Never change the filter control valve position while the pump is running.

⚠ WARNING – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.

⚠ WARNING – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.

⚠ WARNING – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body.

⚠ WARNING – Risk of Electric Shock. All electrical wiring MUST be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment.

⚠ WARNING – To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

⚠ WARNING – Electrical ground all electrical equipment before connecting to electrical power supply. Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard.

⚠ WARNING — Do NOT ground to a gas supply line.

⚠ WARNING – To avoid dangerous or fatal electrical shock, turn OFF power to all electrical equipment before working on electrical connections.

⚠ WARNING – Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) [No. 6 AWG (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub. IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ WARNING – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

⚠ WARNING – Risk of Electric Shock . The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

⚠ CAUTION — This pump is intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS

HAYWARD® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its products to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase, when used in single family residential applications.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center please visit us at www.haywardpool.com.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its' pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Hayward Pool Products
620 Division Street
Elizabeth, NJ 07207

***Supersedes all previous publications.**

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

CAUTION: SHUT OFF PUMP BEFORE OPERATING VALVE OR SERVICING.

FUNCTIONS OF VALVE POSITIONS

VALVE SETTING	FLOW DIRECTION THROUGH VALVE
FILTER	**PUMP - TOP - THROUGH FILTER - BOTTOM - RETURN** For normal filtration and vacuuming pool through filter.
BACKWASH	**PUMP - BOTTOM - THROUGH FILTER - TOP - WASTE** For cleaning filter.
RINSE	**PUMP - TOP - THROUGH VALVE - WASTE** For initial start-up and clearing valve of debris after backwashing.
WASTE	**PUMP – THROUGH VALVE - WASTE** For vacuuming directly to waste, lowering pool level and/or draining pool.
CLOSED	**NO CIRCULATION PAST PUMP PORT** For shutting off all flow to filter and pool.
RECIRCULATE	**PUMP – THROUGH VALVE - RETURN** For bypassing filter, but circulating pool water.
WINTER	**VALVE NOT IN USE** For winterizing.

GENERAL

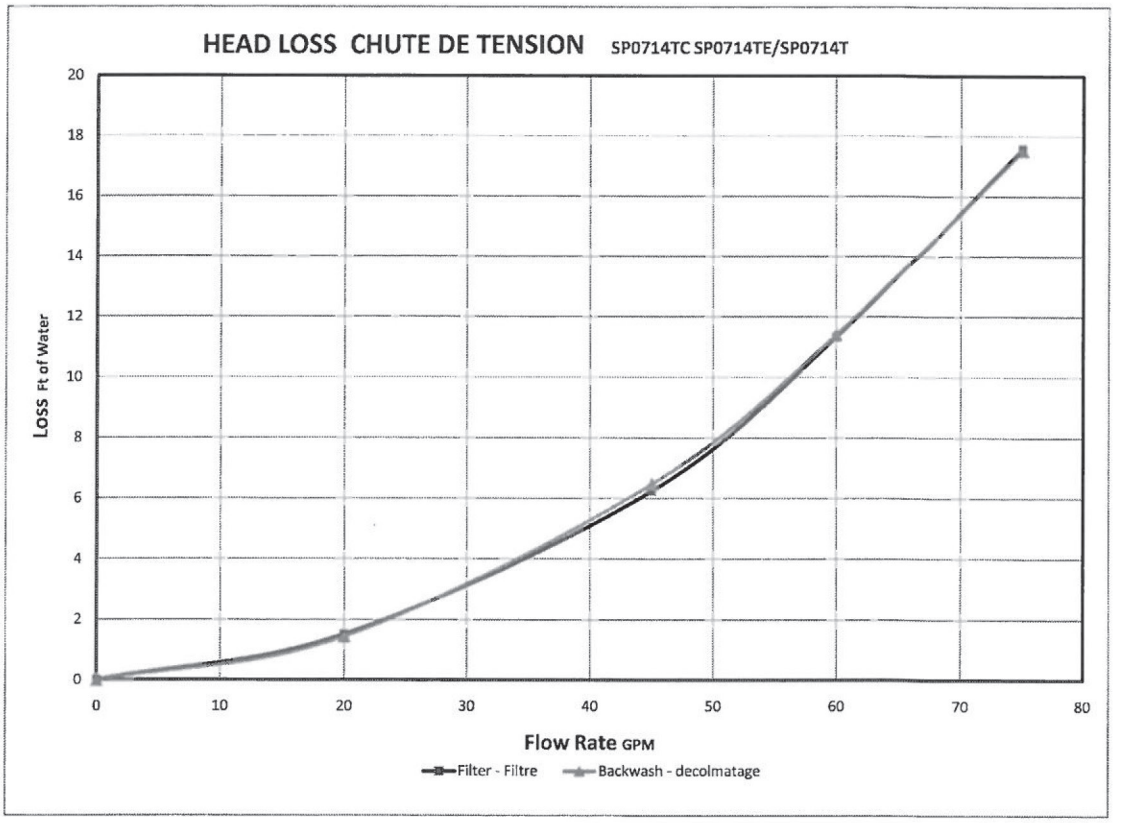
1. A ¼" NPT pipe tapped port is provided for use of a pressure gauge. (Optional pipe plug provided)
2. **Proper fitting make-up is hand tight plus one to 1-1/2 turns maximum.** Always use Teflon pipe tape or Permatex No.2 for connections to provide a good, "living" seal.

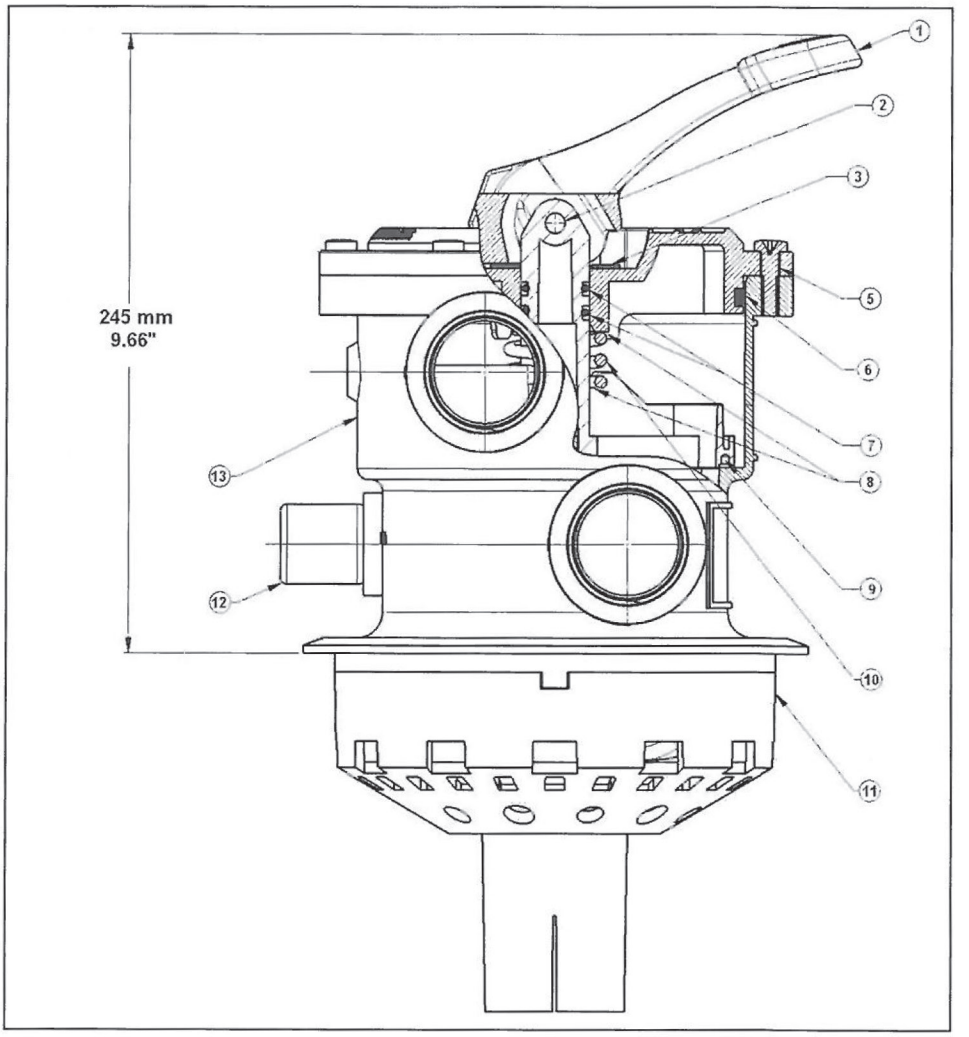
IMPORTANT: Do not over tighten pipe fittings.

3. WINTERIZING: Drain and winterize filter and pump per manufacturer's instructions. To drain water from Vari-Flo®XL —depress and rotate valve handle and place handle pointer on raised portion of index hubs at "Winter" position.
4. **SERVICING VALVE:** If it becomes necessary to service or gain access to the key or valve seat gasket:
   a. Set handle in "Winter" position.
   b. Remove cover screws.
   c. Lift cover and key assembly out.
5. **RE-ASSEMBLY VALVE:**
   a. Wipe debris from cover o-ring.
   b. Set handle in "Winter" position. Align notch on cover with tab on body. Press down to seat assembly.
   c. Secure assembly to body with cover screws. Start screw thread in existing thread in body. Tighten cover screws evenly and alternately. Do not over tighten.

CLAMP INSTALLATION:

1. To install clamp, loosely pre-assemble both halves of the clamp with one screw and nut, turning the nut 2 or 3 turns.
2. Install the clamp around the tank and the valve flange, and then assemble the second screw and nut.
3. Tighten both sides of the clamp alternately and evenly. Use a properly sized large screwdriver. Tighten firmly to obtain a good seal.
4. Be sure to place the vinyl protector caps over the exposed ends of the screw.





REPLACEMENT PARTS			
ITEM	Part Number	Description	Qty
1	SPX0710XF	Handle	1
2	SPX0710XZ7	Handle Pin	1
3	SPX0710Z16	Non-Metallic Bearing	1
4	SPX0714BA	Key, Cover and Handle Assembly	1
5	SPX0714Z1	Cover Screw Pack (Set of 6)	1
6	SPX0714L	Cover O-Ring	1
7	SPX0735GA	O-Ring Shaft Seal Assembly	2
8	SPX0710Z62	Spring Washers (Set of 2)	1
9	SPX0714CA	Key/Seal Assembly	1
10	SPX0603S	Spring	1
11	SPX0714D	Diffuser	1
12	SPX0710MA	Sight Glass w/ Gasket and O-Ring	1
13	SPX0714A	Valve Body with Sight Glass (For SP0714T or SP0714TC)	1

HAYWARD

PRODUCT REGISTRATION (Retain For Your Records)
Serial Number _____ DATE OF INSTALLATION _____

DETACH HERE: Fill out bottom portion completely and mail within 10 days of purchase/installation or register online.

Top Mount Multiport Valve Warranty Card Registration

Register online at www.haywardpool.com

Please Print Clearly:

First Name_____ Last Name_____

Street Address_____

City_____ State_____ Zip_____

Phone Number_____ Purchase Date_____

E-Mail Address_____

Serial Number

Model Number_____

Pool Capacity_____(U.S. Gallons)

☐Please include me on all e-mail communications regarding Hayward® Equipment or promotions.

Mail to: Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207

Attn: Warranty Dept

Or REGISTER YOUR WARRANTY ON-LINE AT WWW.HAYWARDPOOL.COM

Years Pool has been in service

☐< 1 year ☐1-3 ☐4-5 ☐6-10 ☐11-15 ☐>15

Purchased from_____

☐Builder ☐Retailer ☐Pool Service ☐Internet/Catalog

Company Name_____

Address_____

City_____ State_____ Zip_____

Phone_____

Type of Pool:

☐ Concrete/Gunite ☐ Vinyl ☐ Fiberglass

☐ Other_____

☐ New Installation ☐ Replacement

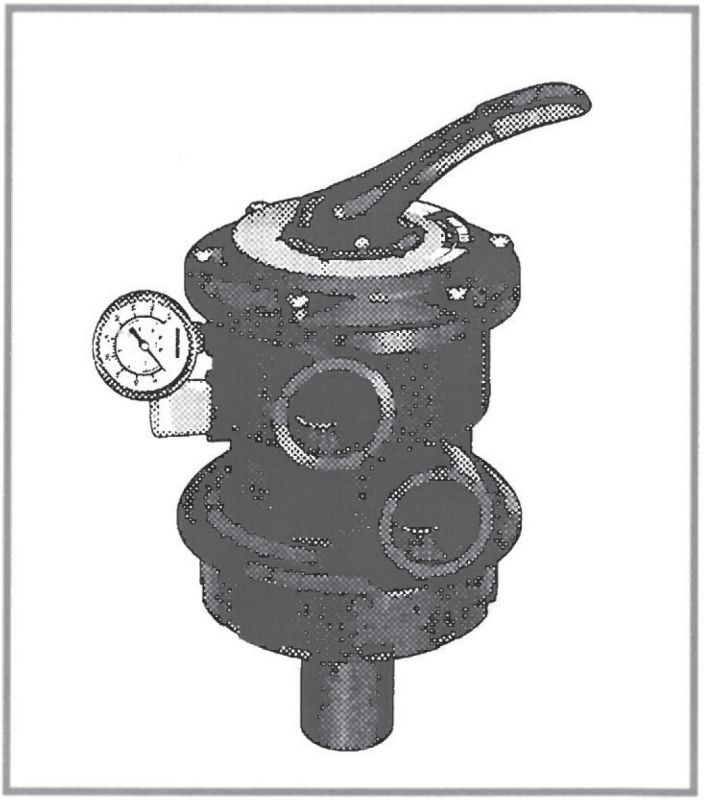
Installation for:

☐ In Ground ☐ Above Ground ☐ Spa

HAYWARD®

IS0714BKN Rev. E

SÉRIE Vari-Flo® XL



MANUEL DU PROPRIÉTAIRE

Modèles **SP0714TC/SP0714TE/SP0714T**

INSTRUCTIONS IMPORTANTES DE SÉCURITÉ

Des précautions de sécurité de base devraient toujours être suivies, y compris la suivante : le non-respect de ces instructions peut causer des blessures graves et/ou la mort.

⚠ Ceci est le symbole d'alerte de sécurité. Lorsque vous voyez ce symbole sur votre équipement ou dans ce manuel, recherchez l'un des termes d'avertissement suivants et soyez conscient des risques de blessures.

⚠ AVERTISSEMENT avertit des dangers qui pourraient causer des blessures graves, la mort ou des dommages matériels majeurs et qui, s'ils sont ignorés, présentent un risque potentiel.

⚠ PRÉCAUTION avertit des dangers qui causeront ou qui peuvent causer des blessures mineures ou modérées et/ou des dommages matériels et qui, s'ils sont ignorés, présentent un risque potentiel. Il peut aussi permettre aux consommateurs de prendre conscience des actions qui sont imprévisibles et dangereuses.

L'étiquette de NOTICE indique des instructions spéciales qui sont importantes mais qui ne sont pas associées à des dangers.

Hayward Pool Products
620 Division Street, Elizabeth, New Jersey 07207
Tél. : (908) 351.5400
www.hayward.com

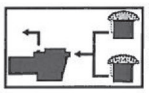
⚠ AVERTISSEMENT - Veuillez lire et suivre toutes les instructions dans ce manuel du propriétaire et sur l'équipement. Le non-respect de ces instructions peut causer des blessures graves et/ou la mort.

⚠ AVERTISSEMENT – Danger de coincement par aspiration.

L'aspiration dans les sorties d'aspiration et/ou les couvercles de sortie d'aspiration qui sont endommagés, cassés, fissurés, manquants ou non sécurisés peuvent causer des blessures graves et/ou la mort à cause des dangers de coincement suivants :

Coincement des cheveux- Les cheveux peuvent devenir entremêlés dans le couvercle de sortie.
Coincement de membre- Un membre introduit dans l'ouverture d'un puisard de sortie d'aspiration ou un couvercle de sortie d'aspiration qui est endommagé, cassé, fissuré, manquant ou non attaché de façon sécurisée peut causer un grippage mécanique ou l'enflure du membre.
Coincement par aspiration du corps- Une pression négative exercée sur une grande partie du corps ou des membres peut conduire à un coincement.
Éviscération / éventrement - une pression négative exercée directement sur les intestins par l'intermédiaire d'un puisard de sortie d'aspiration non protégé ou un couvercle de sortie d'aspiration qui est endommagé, cassé, fissuré, manquant ou non sécurisé peut conduire à l'éviscération / éventrement.
Coincement mécanique- Les bijoux, les maillots de bain, les décorations des cheveux, les doigts de la main ou du pied ou le talon peuvent être coincés dans l'ouverture d'un couvercle de sortie d'aspiration et causer un coincement mécanique.

⚠ AVERTISSEMENT - Pour réduire le risque des dangers de coincement :



o Lorsque les sorties sont suffisamment petites pour qu'une personne puisse les bloquer, il faut installer un minimum de deux sorties d'aspiration opérationnelles par pompe. Les sorties d'aspiration dans un même plan (c.-à-d. plancher ou mur) doivent être installées à un intervalle minimum de 1 (un) mètre [3 pieds], mesuré entre les points les plus proches.

o Les raccords à double aspiration seront placés dans des lieux et à des distances permettant d'éviter le « double blocage » par un utilisateur.

o Les raccords à double aspiration ne seront pas situés sur les zones de portage ou sur le dossier pour ces zones de portage.

o Le débit maximum du système ne doit pas dépasser le débit indiqué sur le Tableau 1.

o N'utilisez jamais la piscine ou le spa si tout composant de la sortie d'aspiration est endommagé, cassé, fissuré, manquant ou non attaché de façon sécurisée.

o Remplacez immédiatement les composants de la sortie d'aspiration qui sont endommagés, cassés, manquants ou non attachés de façon sécurisée.

o En plus de l'installation de deux sorties d'aspiration ou plus par pompe, conformément aux normes ASME et APSP et aux directives CPSC les plus récentes, suivez tous les codes nationaux, provinciaux et locaux en vigueur.

o Il est recommandé d'installer un système de détente de vide ou d'évent pour détendre l'aspiration causant les coincements.

⚠ AVERTISSEMENT – Ne pas retirer les bouchons de test de pression et/ou les bouchons utilisés pour la protection contre le froid de la piscine/spa sur les sorties d'aspiration peut causer l'augmentation des risques de coincement par aspiration décrits ci-dessus.

⚠ AVERTISSEMENT – Ne pas conserver les composants des sorties d'aspiration dépourvus de débris tels que les feuilles, les impuretés, les cheveux, le papier ou autres matières peut causer l'augmentation des risques de coincement par aspiration décrits ci-dessus.

⚠ AVERTISSEMENT – Les composants de sortie d'aspiration ont une durée de vie limitée; le couvercle/la grille devraient être inspectés fréquemment et remplacés au moins tous les dix ans ou s'ils s'avèrent être endommagés, cassés, fissurés, manquants ou non attachés de façon sécurisée.

⚠ PRÉCAUTION – Les composants tels que le système de filtration, les pompes et le réchauffeur doivent être positionnés de façon à empêcher qu'ils soient utilisés comme moyens d'accès à la piscine par les jeunes enfants.

⚠ AVERTISSEMENT – Ne faites jamais marcher le système de circulation et ne faites jamais son essai à plus de 50 PSI.

⚠ AVERTISSEMENT – Ne changez jamais la position de la soupape de commande du filtre pendant que la pompe est en marche.

⚠ AVERTISSEMENT – Pour réduire les risques de blessure, ne permettez jamais aux enfants d'utiliser ou de monter sur ce produit. Supervisez étroitement les enfants de façon permanente. Les composants tels que le système de filtration, les pompes et les réchauffeurs doivent être positionnés pour empêcher que les enfants les utilisent comme moyens d'accéder à la piscine.

⚠ AVERTISSEMENT – Pression dangereuse. Les systèmes de circulation d'eau de piscine et de spa fonctionnent avec des pressions dangereuses pendant leur démarrage, leur fonctionnement normal et après l'arrêt de lapompe. Éloignez-vous de l'équipement du système de circulation pendant le démarrage de la pompe. Le non-respect des instructions de sécurité et d'utilisation pourrait conduire à la séparation brusque du boîtier de la pompe et du couvercle, et/ou du boîtier du filtre et du collier à cause de la pression dans le système, ce qui pourrait causer des dommages matériels, des blessures graves ou la mort. Avant d'effectuer l'entretien des systèmes de circulation d'eau de piscine et de spa, toutes les commandes du système et de la pompe doivent être en position d'arrêt et la soupape manuelle de détente d'air du filtre doit être en position ouverte. Avant de démarrer la pompe du système, toutes les soupapes du système doivent être réglées à la position qui permettra à l'eau du système de retourner dans la piscine. Ne changez pas la position de la soupape de commande du filtre pendant que la pompe du système est en marche. Avant de démarrer la pompe du système, ouvrez complètement la soupape manuelle de détente d'air du filtre. Ne fermez pas la soupape manuelle de détente d'air du filtre tant qu'un débit d'eau régulier (pas d'air ou de mélange eau-air) n'est pas refoulé.

⚠ AVERTISSEMENT – Danger de séparation Le non-respect des instructions de sécurité et d'utilisation pourrait conduire à la séparation brusque de la pompe et/ou des composants du filtre. Le couvercle de la crépine doit être attaché en toute sécurité au boîtier de la pompe avec la bague de retenue du couvercle de la crépine. Avant d'effectuer l'entretien du système de circulation de la piscine ou du spa, la soupape manuelle de détente d'air du filtre doit être en position ouverte. N'utilisez pas le système de circulation de la piscine ou du spa si tout composants du système n'est pas monté correctement ou est endommagé ou manquant. N'utilisez pas le système de circulation de la piscine ou du spa si le corps de la soupape manuelle de détente d'air du filtre est en position verrouillée dans le corps supérieur du filtre.

⚠ AVERTISSEMENT – Risque de choc électrique L'ensemble du câblage électrique DOIT être conforme aux codes locaux et à la réglementation en vigueur, ainsi qu'au Code national de l'électricité (NEC). Une tension dangereuse peut causer une électrocution et des brûlures et conduire à la mort ou des dommages matériels graves. Pour réduire le risque de choc électrique, n'utilisez PAS de rallonge pour connecter l'unité à l'alimentation électrique. Fournissez un réceptacle électrique correctement situé. Avant de travailler sur tout équipement électrique, coupez l'alimentation électrique de l'équipement.

⚠ AVERTISSEMENT – Pour réduire le risque de choc électrique, remplacez immédiatement le câblage endommagé. Placez le conduit de façon à empêcher son abus causé par les tondeuses à gazon, les taille-haies et autre équipement.

⚠ AVERTISSEMENT – Mettez à la terre tout l'équipement électrique avant de le connecter à l'alimentation électrique. Ne pas mettre à la terre tout l'équipement électrique peut causer un danger grave ou mortel de choc électrique.

⚠ AVERTISSEMENT — Ne mettez PAS à la terre en connectant à une conduite d'alimentation de gaz.

⚠ AVERTISSEMENT – Pour éviter un choc électrique dangereux ou mortel, coupez (OFF) l'alimentation de tout l'équipement électrique avant de travailler sur les connexions électriques.

⚠ AVERTISSEMENT – Ne pas connecter tout l'équipement électrique à la structure de la piscine augmentera le risque d'électrocution et pourrait conduire à des blessures ou la mort. Pour réduire le risque de choc électrique, voir les instructions d'installation et consultez un électricien professionnel sur la façon de connecter tout l'équipement électrique. Contactez aussi un électricien agréé pour des informations sur les codes électriques locaux concernant les exigences de connexion.

⚠ Remarques à l'attention de l'électricien : Utilisez un conducteur en cuivre massif de calibre 8 ou plus. Raccordez un fil continu entre la cosse de connexion externe et la tige ou la maille de renfort. Connectez un fil de connexion en cuivre massif no 8 AWG (8,4 mm²) [no 6 AWG (13,3 mm²) pour le Canada] au connecteur de fil de pression fourni sur l'équipement électrique et à toutes les parties métalliques de la piscine, du spa ou du bain chaud, et à la tuyauterie métallique (sauf la tuyauterie de gaz) et aux conduits situés à moins de 1,5 m (5 pieds) des parois intérieures de la piscine, du spa ou du bain chaud.
IMPORTANT - Référez-vous aux codes NEC pour toutes les normes de câblage, y compris, sans limitation, la mise à la terre, la connexion et les autres procédures générales de câblage.

⚠ AVERTISSEMENT – Risque de choc électrique Connectez seulement à un circuit de dérivation protégé par un disjoncteur de fuite à la terre (GFCI). Contactez un électricien qualifié si vous ne pouvez pas vérifier que le circuit est protégé par un GFCI.

⚠ AVERTISSEMENT – Risque de choc électrique L'équipement électrique doit être connecté uniquement à un circuit d'alimentation qui est protégé par un disjoncteur de fuite à la terre (GFCI). Un tel GFCI devrait être fourni par l'installateur et devrait être testé régulièrement. Pour tester le GFCI, appuyez sur le bouton de test. Le GFCI devrait couper l'alimentation. Appuyez sur le bouton de réarmement. L'alimentation devrait être rétablie. Si le GFCI ne fonctionne pas de cette façon, il est défectueux. Si le GFCI coupe l'alimentation de l'équipement électrique sans que le bouton de test n'ait été poussé, un courant de terre est présent, ce qui indique la possibilité d'un choc électrique. N'utilisez pas cet équipement électrique. Déconnectez l'équipement électrique et demandez à un représentant de service d'entretien qualifié de corriger le problème avant l'utilisation.

⚠ PRÉCAUTION — Cette pompe est conçue pour être utilisée avec une piscine installée de façon permanente et peut être utilisée avec des bains chauds ou des spas si elle est marquée pour cela. Ne l'utilisez pas avec des piscines pouvant être remisées. Une piscine installée de façon permanente est construite dans ou sur le sol ou dans un bâtiment, de sorte qu'elle ne peut pas être facilement démontée pour son remisage. Une piscine pouvant être remisée est construite de façon qu'elle puisse être démontée facilement pour son remisage et remontée en reprenant son intégrité d'origine.

CONSERVEZ CES INSTRUCTIONS

PRÉCAUTION : ARRÊTEZ LA POMPE AVANT D'ACTIONNER LA SOUPAPE OU D'EFFECTUER L'ENTRETIEN.

FONCTIONS DES POSITIONS DE SOUPAPE

RÉGLAGES DE SOUPAPE	SENS DE L'ÉCOULEMENT TRAVERSANT LA SOUPAPE
FILTRE	POMPE - EN HAUT - TRAVERSÉE DU FILTRE - EN BAS - RETOUR Pour la filtration normale et l'aspiration de la piscine à travers le filtre.
DÉCOLMATAGE	POMPE - EN BAS - TRAVERSÉE DU FILTRE - EN HAUT - EAU USÉE Pour nettoyer le filtre.
RINÇAGE	POMPE - EN HAUT - TRAVERSÉE DE LA SOUPAPE - EAU USÉE Pour le démarrage initial et pour nettoyer la soupape des débris après le décolmatage.
EAU USÉE	POMPE – TRAVERSÉE DE LA SOUPAPE - EAU USÉE Pour aspirer directement vers l'évacuation de l'eau usée, pour abaisser le niveau de la piscine et/ou pour vider la piscine.
FERMÉE	PAR DE CIRCULATION AU-DELÀ DE L'ORIFICE DE LA POMPE Pour arrêter tout le débit vers le filtre et la piscine.
RECIRCULATION	POMPE – TRAVERSÉE DE LA SOUPAPE - RETOUR Pour contourner le filtre mais faire circuler l'eau de la piscine.
HIVER	SOUPAPE NON UTILISÉE Pour la protection contre le froid.

GÉNÉRALITÉS

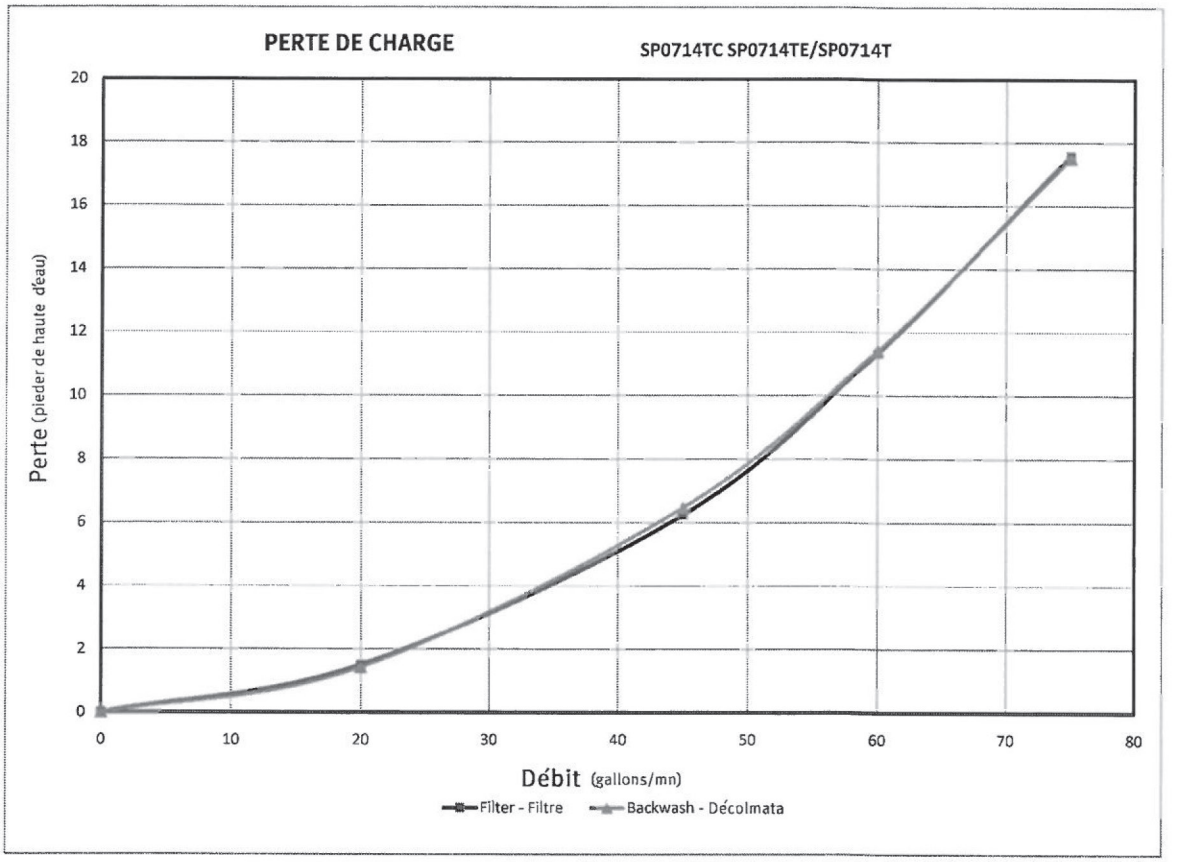
1. Un orifice taraudé de tuyau de ¼ po NPT est fourni pour l'utilisation d'un manomètre. (Bouchon de tuyau facultatif fourni)
2. Le raccordement correct consiste à serrer à la main, plus un à 1 1/2 tours maximum. Utilisez toujours un ruban de tuyau en téflon ou en Permatex no 2 pour les connexions afin de fournir un bon joint cinétique.

IMPORTANT : Ne serrez pas trop les raccords de tuyau.

3. PROTECTION CONTRE LE FROID : Vidangez et protégez le filtre et la pompe selon les instructions du fabricant. Pour vider l'eau de la Vari-Flo®XL — enfoncez et tournez la poignée de la soupape et placez l'indicateur de la poignée sur la portion soulevée du moyeu à la position « Winter » (hiver).
4. ENTRETIEN DE LA SOUPAPE : S'il devient nécessaire d'effectuer l'entretien de la soupape ou d'avoir accès à la clavette ou au joint d'étanchéité de soupape :
   a. Réglez la poignée à la position « Winter ».
   b. Retirez les vis du couvercle.
   c. Soulevez l'ensemble du couvercle et de la clavette.
5. REMONTAGE DE LA SOUPAPE :
   a. Essuyez les débris du joint torique du couvercle.
   b. Réglez la poignée à la position « Winter ». Alignez l'encoche du couvercle avec la languette sur le corps. Enfoncez pour installer l'ensemble.
   c. Attachez l'ensemble au corps avec les vis du couvercle. Engagez les filets de vis dans les filets existants du corps. Serrez les vis du couvercle uniformément et en alternant. Ne serrez pas trop.

INSTALLATION DU COLLIER :

1. Pour installer le collier, assemblez au préalable sans serrer les deux parties du collier avec une vis et un écrou, en tournant l'écrou de 2 ou 3 tours.
2. Installez le collier autour du réservoir et de la bride de soupape, puis montez la deuxième vis et le deuxième écrou.
3. Serrez les deux côtés du collier uniformément et en alternant. Utilisez un gros tournevis de taille appropriée. Serrez fermement pour obtenir une bonne étanchéité.
4. Assurez-vous de placer les capuchons de protection en vinyle au-dessus des extrémités exposées de la vis.



GARANTIE LIMITÉE DE HAYWARD® Pool Products

Aux acheteurs d'origine de cet équipement, Hayward Pool Products, Inc. garantit que ses produits sont dépourvus de vices de matériau et de main d'œuvre pendant une période d'UN (1) an après la date d'achat, lorsqu'ils sont utilisés dans des installations de maison individuelle.

La garantie limitée exclut les dommages dus au gel, à la négligence, à l'installation incorrecte, à l'utilisation ou l'entretien incorrect, ou à toute Force majeure. Les pièces qui sont défaillantes ou deviennent défectueuses pendant la période de garantie seront réparées ou remplacées gratuitement, selon notre choix, dans un délai de 90 jours après réception du produit défectueux, à l'exception de tout retard non anticipé.

Le justificatif d'achat est requis pour le service de garantie. Si le justificatif d'achat n'est pas disponible, seule la date de fabrication du produit sera utilisée pour déterminer la date d'achat.

Pour obtenir un service sous garantie, veuillez contacter le lieu d'achat ou le Centre d'entretien autorisé Hayward le plus proche. Pour obtenir de l'aide afin de localiser votre Centre d'entretien autorisé Hayward le plus proche, veuillez nous rendre visite à www.haywardpool.com.

Hayward ne sera pas responsable pour la main d'œuvre de transport, de dépose, de réparation ou d'installation ou tout autre frais de ce type encouru pour obtenir un remplacement ou une réparation sous garantie.

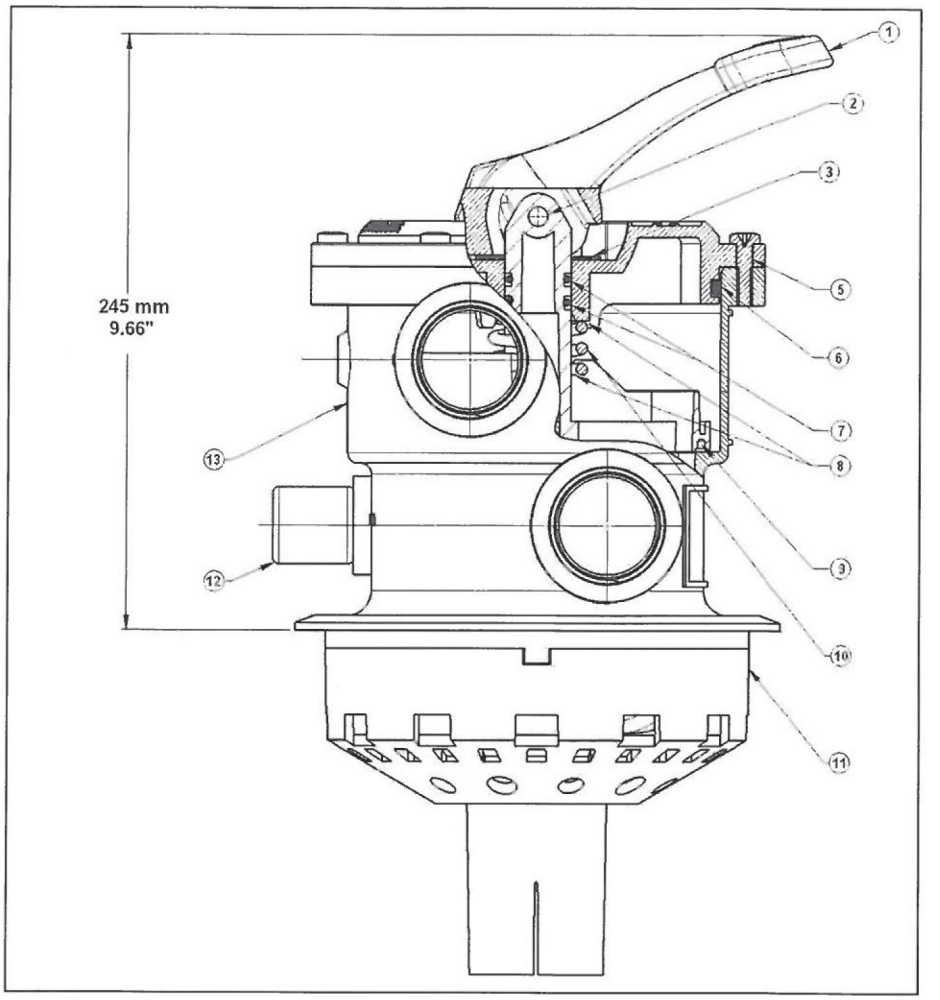
La garantie de Hayward Pool Products ne concerne pas tout composant fabriqué par des tiers. Pour ces produits, la garantie établie par le fabricant concerné est applicable.

La garantie limitée expresse indiquée ci-dessus constitue l'entière garantie de Hayward Pool Products concernant ses produits de piscine et remplace toutes les autres garanties explicites ou implicites, y compris les garanties de valeur marchande ou d'adaptation à un usage particulier. Hayward Pool Products ne sera en aucun cas responsable pour les dommages indirects, spéciaux ou accessoires de toute nature.

Certaines régions ne permettent pas de limitation sur la durée d'une garantie implicite, ou l'exclusion des dommages indirects ou accessoires, aussi la limitation ci-dessus peut ne pas vous être applicable. Cette garantie vous donne des droits juridiques spécifiques et vous pouvez aussi avoir d'autres droits qui varient d'une région à l'autre.

***Remplace toutes les publications précédentes**

Hayward Pool Products
620 Division Street
Elizabeth, New Jersey 07207



PIÈCES DE RECHANGE			
ARTICLE	Numéro de pièce	Description	Qté
1	SPX0710XF	Poignée	1
2	SPX0710XZ7	Goupille de poignée	1
3	SPX0710Z16	Roulement non métallique	1
4	SPX0714BA	Ensemble de clavette, couvercle et poignée	1
5	SPX0714Z1	Jeu de vis de couvercle (6)	1
6	SPX0714L	Joint torique de couvercle	1
7	SPX0735GA	Ensemble de joint d'arbre à joint torique	2
8	SPX0710Z62	Rondelles élastiques (jeu de 2)	1
9	SPX0714CA	Ensemble de clavette/joint	1
10	SPX0603S	Ressort	1
11	SPX0714D	Diffuseur	1
12	SPX0710MA	Hublot avec joint et joint torique	1
13	SPX0714A	Corps de soupape avec hublot (pout SP0714T ou SP0714TC)	1

HAYWARD

ENREGISTREMENT DU PRODUIT (À conserver dans vos archives)	
Numéro de série	_____
DATE D'INSTALLATION	_____

DÉTACHEZ ICI : Remplissez la partie inférieure complètement et envoyez-la dans un délai de 10 jours après l'achat/l'installation ou enregistrez-vous en ligne.

Soupape multivoies montée sur le dessus

Enregistrement de carte de garantie

Enregistrez-vous en ligne à www.haywardpool.com

Veuillez écrire clairement en caractères d'imprimerie :

Prénom_____ Nom de

famille_____

Adresse

municipale_____

Ville_____ État_____

Code postal_____

Numéro de téléphone_____

Date d'achat_____

Adresse électronique_____

Numéro de série

Numéro de modèle_____

Capacité de la piscine_____(en gallons des É.-U.)

☐Veuillez m'envoyer toutes les communications par courriel concernant l'équipement ou les promotions de Hayward®.

Années depuis la mise en service de la piscine

☐ < 1 an ☐ 1 à 3 ☐ 4 à 5 ☐ 6 à 10 ☐ 11 à 15 ☐ > 15

Achetée auprès de_____

☐Constructeur ☐Détaillant ☐Service d'entretien de piscine ☐Internet/catalogue

Nom de la société_____

Adresse_____

Ville_____ État_____

Code postal_____

Téléphone_____

Type de piscine :

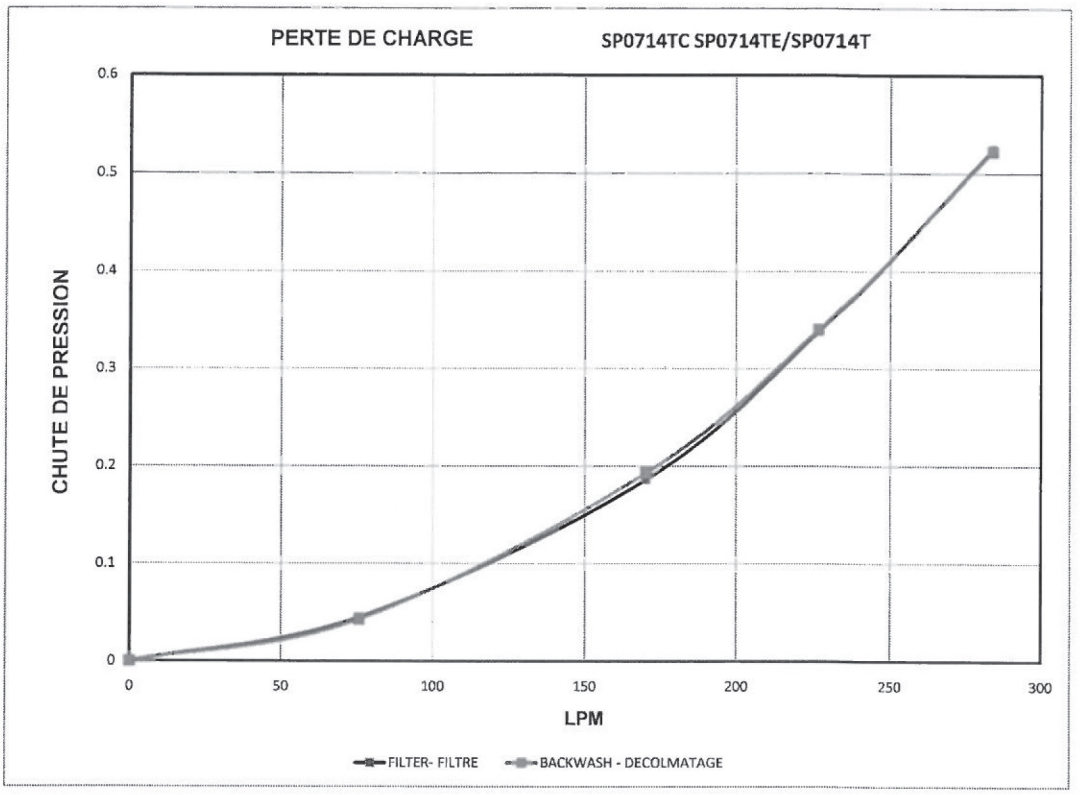
☐ Béton/gunite ☐ Vinyle ☐ Fibre de verre

☐ Autre_____

☐ Nouvelle installation ☐ Remplacement

Installation pour :

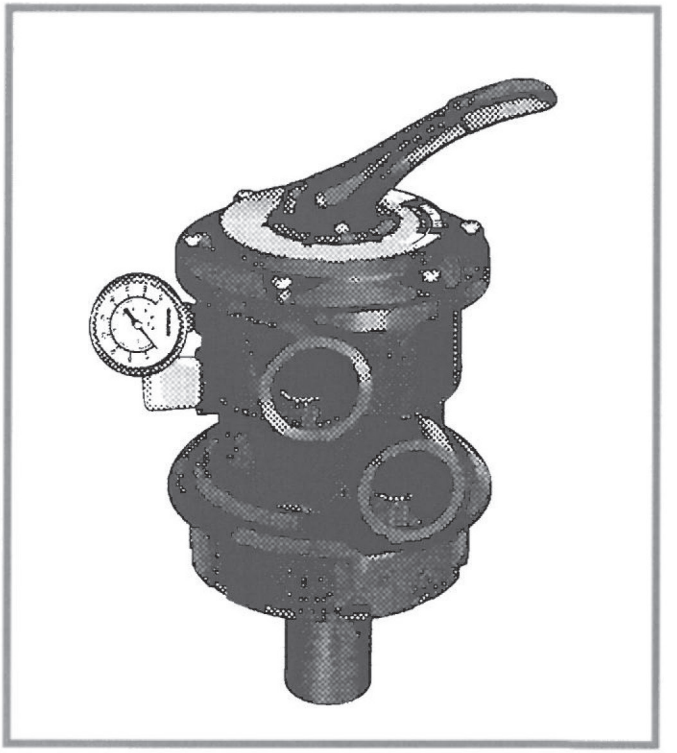
☐ Piscine creusée ☐ Piscine hors terre ☐ Spa


PERTE DE CHARGE
SP0714TC SP0714TE/SP0714T
CHUTE DE PRESSION
0.6
0.5
0.4
0.3
0.2
0.1
0
0
50
100
150
200
250
300
LPM
FILTER- FILTRE
BACKWASH - DECOLMATAGE

HAYWARD®

IS0714BKN Rev. E

SERIE Vari-Flo® XL



MANUAL DEL USUARIO

Modelos **SP0714TC/SP0714TE/SP0714T**

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Siempre se debe seguir las precauciones básicas de seguridad, incluido lo siguiente: No seguir las instrucciones puede causar lesiones graves y/o la muerte.

⚠ Éste es el símbolo de alerta de seguridad. Cuando vea este símbolo en el equipo o en este manual, busque una de las siguientes palabras de aviso y esté alerta a las posibles lesiones físicas.

⚠ ADVERTENCIA avisa sobre los peligros que podrían causar lesiones físicas graves, muerte o daños importantes a la propiedad y que, si se los ignora, pueden constituir un posible peligro.

⚠ PRECAUCIÓN avisa sobre peligros que van a o que pueden causar lesiones físicas menores o moderadas y/o daños a la propiedad y que si se los ignora presentan un peligro potencial. También puede hacer que los consumidores se den cuenta de las acciones que son impredecibles y no seguras.

El rótulo AVISO indica instrucciones especiales que son importantes pero que no están relacionadas con peligros.

Hayward Pool Products.
620 Division Street, Elizabeth, NJ 07207
Teléfono: (908) 351.5400
www.haywardpool.com

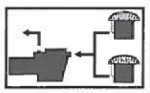
⚠ ADVERTENCIA - Lea y siga todas las instrucciones en este manual del usuario y en el equipo. No seguir las instrucciones puede causar lesiones graves y/o la muerte.

⚠ ADVERTENCIA – Peligro de ser atrapado por la succión.

La succión de las tomas de succión y/o cubiertas de las tomas de succión dañadas, rotas, agrietadas, faltantes o no aseguradas puede causar lesiones graves y/o muerte debido a los peligros siguientes de ser atrapado:

Pelo atrapado- Es posible que el pelo se enrede en la cubierta de la salida de la succión.
Extremidad atrapada- Una extremidad insertada en una abertura de una toma de succión o en una cubierta de toma de succión dañada, rota, agrietada o faltante, o que no está bien asegurada puede resultar en un atasco mecánico o en que se hinche la extremidad.
Cuerpo atrapado por la succión- Una presión negativa aplicada a una parte grande del cuerpo o de las extremidades puede resultar en que quede atrapado.
Evisceración - Una presión negativa aplicada directamente a los intestinos a través de la toma de succión o un sumidero desprotegidos una cubierta de la toma de succión dañada, rota, agrietada o faltante o sin asegurar puede resultar en la evisceración.
Atrapamiento mecánico- Existe el potencial de que joyería, los trajes de baño, decoraciones del pelo, dedos o dedos del pie o nudillos se atasquen en la abertura de la cubierta de una toma de de succión, resultando en atrapamiento mecánico.

⚠ ADVERTENCIA - Para reducir el riesgo de los peligros de atrapamiento:



- Cuando las tomas son suficientemente pequeñas para que las bloquee una persona, se debe instalar un mínimo de dos tomas de succión funcionales por bomba. Se debe instalar las tomas de succión en el mismo plano (como en el piso o la pared), a un mínimo de tres pies (3 pies) [1 metro] de distancia, medida desde un punto cercano a otro punto cercano.
- Se debe colocar tomas de succión dobles en sitios y a distancias tales que se evite que un usuario "bloquee ambas".
- Los accesorios de succión dobles no se deben situar en áreas para sentarse ni en el respaldo de dichas áreas.
- El caudal máximo del sistema no debe exceder el caudal nominal indicado en la Tabla 1.
- Nunca use la piscina ni el spa si hay un componente de la toma de succión dañado, roto, agrietado, faltante o que no está fijado de manera segura.
- Reemplace inmediatamente los componentes de la toma de succión dañados, rotos, agrietados o que no estén instalados de manera segura.
- Además de dos o más tomas de succión por bomba instaladas de acuerdo a las últimas normas de ASME, APSP y las directrices CPSC, siga todos los códigos nacionales, estatales y locales aplicables.
- Se recomienda la instalación de un alivio de vacío o sistema de ventilación, que alivia la succión de atrapamiento.

⚠ ADVERTENCIA – No quitar los tapones de prueba de presión y/o los tapones usados en las tomas de succión para acondicionar la piscina/spa para el invierno puede resultar en un aumento potencial en la posibilidad de verse atrapado por la succión como se describió anteriormente.

⚠ ADVERTENCIA – No mantener los componentes de la toma de succión libres de basura, como hojas, suciedad, pelo, papel y otro material puede resultar en un aumento potencial de la posibilidad de verse atrapado como se describió anteriormente.

⚠ ADVERTENCIA – Los componentes de la toma de succión tienen una vida limitada, se debe inspeccionar con frecuencia cubiertas y rejillas, y se las debe cambiar por lo menos cada diez años o si se determina que están dañadas, rotas, agrietadas o faltan o no están instaladas de manera segura.

⚠ PRECAUCIÓN – Los componentes como el sistema de filtración, las bombas y el calentador se deben colocar de tal manera que eviten que niños jóvenes los usen como un medio de acceso a la piscina.

⚠ ADVERTENCIA – Nunca opere ni pruebe el sistema de circulación a más de 50 PSI.

⚠ ADVERTENCIA – Nunca cambie la posición de la válvula de control del filtro mientras la bomba esté en funcionamiento.

⚠ ADVERTENCIA – Para reducir el riesgo de lesiones, no permita que los niños use ni que se suban a este producto. Supervise de cerca a los niños en todo momento. Se debe colocar los componentes como el sistema de filtración, las bombas, y los calentadores de manera que se evite que los niños los usen como un medio para acceder a la piscina.

⚠ ADVERTENCIA–Presión peligrosa. Los sistemas de circulación de agua de la piscina o del spa funcionan bajo presiones peligrosas durante la puesta en marcha, durante el funcionamiento normal, y después que se apague la bomba. Permanezca alejado del equipo del sistema de circulación de agua durante el arranque de la bomba. No seguir las instrucciones de seguridad y operación podría resultar en la separación violenta del alojamiento de la bomba y la cubierta, y/o del alojamiento del filtro y la abrazadera debido a la presión existente en el sistema, que podría causar daños a la

propiedad, lesiones físicas graves o la muerte. Antes de dar servicio al sistema de circulación de agua de la piscina o del spa, se debe poner en apagados todos los controles del sistema y la válvula de alivio manual de aire del filtro debe estar en la posición de abierta. Antes de poner en marcha la bomba del sistema, se debe colocar todas las válvulas del sistema en una posición que permita que el agua del sistema vuelva de nuevo a la piscina. No cambie la posición de la válvula de control del filtro mientras la bomba del sistema esté funcionando. Antes de poner en marcha la bomba del sistema, abra completamente la válvula de alivio manual de aire del filtro. No cierre la válvula de alivio manual de aire del filtro hasta que se descargue un flujo continuo de agua (no aire ni aire con agua).

⚠ ADVERTENCIA – Peligro de separación. No seguir cuidadosamente las instrucciones de seguridad y operación puede resultar en la separación violenta de componentes de la bomba y/o del filtro. La cubierta del cedazo debe estar correctamente fijada al alojamiento de la bomba con el anillo de bloqueo de la cubierta del cedazo. Antes de dar servicio al sistema de circulación de la piscina o del spa, la válvula de alivio del aire del filtro manual debe estar en la posición de abierta. No opere el sistema de circulación de piscina o spa si hay un componente del sistema que no está correctamente montado, está dañado o faltante. No opere el sistema de circulación de piscina o spa a menos que el cuerpo de la válvula manual de alivio de aire del filtro se encuentre en la posición de bloqueada en el cuerpo superior del filtro.

⚠ ADVERTENCIA – – Riesgo de descarga eléctrica. Todo el cableado eléctrico TIENE que cumplir con los códigos y normas locales aplicables y con el Código Eléctrico Nacional (NEC). Un voltaje peligroso puede causar una descarga, quemaduras y muerte o daños graves a la propiedad. Para reducir el riesgo de una descarga eléctrica NO use un cordón de extensión para conectar la unidad al suministro de energía eléctrica. Se debe proporcionar un receptáculo eléctrico situado adecuadamente. Antes de trabajar en equipo eléctrico, apague la alimentación eléctrica al equipo.

⚠ ADVERTENCIA – Para reducir el riesgo de descargas eléctricas cambie inmediatamente el cableado dañado. Instale el conducto de manera que se evite el abuso por parte de cortadoras de pasto, recortadoras de setos u otro equipo.

⚠ ADVERTENCIA – Conecte a una tierra eléctrica todo el equipo eléctrico antes de conectar a la fuente de energía eléctrica. No conectar a tierra todo el equipo eléctrico puede causar un peligro de descarga eléctrica grave o mortal.

⚠ ADVERTENCIA – NO conecte la tierra a una tubería de suministro de gas.

⚠ ADVERTENCIA – Para evitar descargas eléctricas peligrosas o mortales, APAGUE la alimentación eléctrica a todo el equipo eléctrico antes de trabajar en las conexiones eléctricas.

⚠ ADVERTENCIA – No unir todo el equipo eléctrico a la estructura de la piscina aumentará el riesgo de electrocución y podría resultar en lesiones o muerte. Para reducir el riesgo de descargas eléctricas, consulte las instrucciones de instalación y consulte a un electricista profesional sobre cómo unir todo el equipo eléctrico. Comuníquese también con un electricista local para obtener información sobre los códigos eléctricos locales por los requisitos de unión.

Notas al electricista: Use un conductor de cobre sólido calibre 8 o mayor. Tienda un cable continuo desde una orejeta externa de unión a una varilla o malla de refuerzo. Conecte un cable de cobre sólido de unión No. 8 AWG (8.4 mm^2) [No. 6 AWG (13.3 mm^2) para Canadá] al conector de alambre a presión proporcionado en el equipo eléctrico y a todas las partes de metal de piscinas de natación, spa, o bañera de hidromasaje, y a la tubería de metal (excepto la tubería de gas), y conductos dentro de 5 pies (1.5 m) de las paredes interiores de piscinas de natación, spa, o bañera de hidromasaje.
IMPORTANTE - Consulte los códigos NEC por todas las normas de cableado incluidas de manera no excluyente, la conexión a tierra, la unión, y otros procedimientos generales de cableado.

⚠ ADVERTENCIA – Riesgo de descargas eléctricas. Conecte sólo a un ramal del circuito que esté protegido por un interruptor contra tierra accidental (GFCI). Comuníquese con un electricista calificado si no puede comprobar que el circuito está protegido por un GFCI.

⚠ ADVERTENCIA – Riesgo de descargas eléctricas. El equipo eléctrico debe estar conectado sólo a un circuito de suministro que esté protegido por un interruptor contra tierra accidental (GFCI). El instalador debe proporcionar este GFCI y lo debe probar de manera rutinaria. Para probar el GFCI, apriete el botón de prueba. El GFCI debe interrumpir la energía eléctrica. Presione el botón de reposición. Se debe restablecer la alimentación. Si el GFCI no funciona de esta manera, es que está defectuoso. Si el GFCI interrumpe la alimentación al equipo eléctrico sin que se presione el botón de prueba, quiere decir que hay una corriente a tierra fluyendo, indicando la posibilidad de una descarga eléctrica. No utilice este equipo eléctrico. Desconecte el equipo eléctrico y haga que un representante de servicio calificado corrija el problema antes de usarlo.

⚠ PRECAUCIÓN – Esta bomba es para usar con piscinas instaladas permanentemente y se puede usar con bañeras de hidromasajes (s) y spas si está marcado. No se debe usar con piscinas que se pueden almacenar. Una piscina instalada permanentemente está construida adentro o sobre el terreno o en un edificio de manera que no se la puede desmontar fácilmente para almacenar. Una piscina para almacenar está construida de manera que se la pueda desmontar fácilmente para almacenarla y luego volver a montarla para que tenga su integridad original.

GUARDE ESTAS INSTRUCCIONES

GARANTÍA LIMITADA DE HAYWARD® Pool Products

Hayward Pool Products, Inc. garantiza al comprador original de este equipo que sus productos están libres de defectos de materiales y de mano de obra durante un período de UN (1) año a partir de la fecha de compra, cuando los productos se usan en aplicaciones residenciales de una sola familia.

La garantía limitada excluye daños debidos al congelamiento, negligencia, instalación indebida, uso o atención indebidos o cualquier acto de fuerza mayor (Acto de Dios). Las piezas que fallen o se resulten defectuosas durante el período de la garantía se reemplazarán o reparar án gratis, a nuestra opción, dentro de un plazo de 90 días de haberse recibido el producto defectuoso, a menos que ocurran demoras inesperadas.

Se exige una prueba de compra para el servicio bajo la garantía. En caso de que no haya disponible una prueba de compra, la fecha de fabricación del producto será la determinación exclusiva de la fecha de compra.

Para obtener servicio bajo la garantía, comuníquese con el lugar de compra o con el Centro de Servicio Autorizado de Hayward más cercano.

Para obtenerr ayuda de su centro de servicio autorizado de Hayward más cercano, visítenos en www.haywardpool.com.

Hayward no será responsable del acarreo, extracción, reparación o mano de obra para la instalación ni de ningún costo incurrido para obtener el reemplazo o la reparación bajo la garantía.

La garantía de los productos Hayward Pool no se aplica a los componentes fabricados por otros. Para esto productos, se aplicará la garantía establecida por el fabricante respectivo.

La garantía limitada expresa anterior constituye la garantía en su totalidad ofrecida por Hayward Pool Products con respecto a sus productos de piscina y remplaza todas las demás garantías expresas o implícitas, incluidas las garantías de comerciabilidad o de aptitud para un propósito en particular. Los productos de Hayward Pool no serán responsables en ningún caso de daños consecuentes, especiales o imprevistos de ningún tipo.

Algunos estados no permiten una limitación sobre la duración de una garantía implícita, o la exclusión de daños imprevistos o consecuentes, de manera que es posible que la limitación anterior no se aplique a usted. Esta garantía le proporciona derechos legales específicos, y cabe la posibilidad de que usted tenga otros derechos que pueden variar de un estado al otro.

Hayward Pool Products.
620 Division Street
Elizabeth, NJ 07207

***Reemplaza todas las publicaciones anteriores.**

PRECAUCIÓN: APAGUE LA BOMBA ANTES DE OPERAR LA VÁLVULA O DAR SERVICIO.

FUNCIONES DE LAS POSICIONES DE LA VÁLVULA

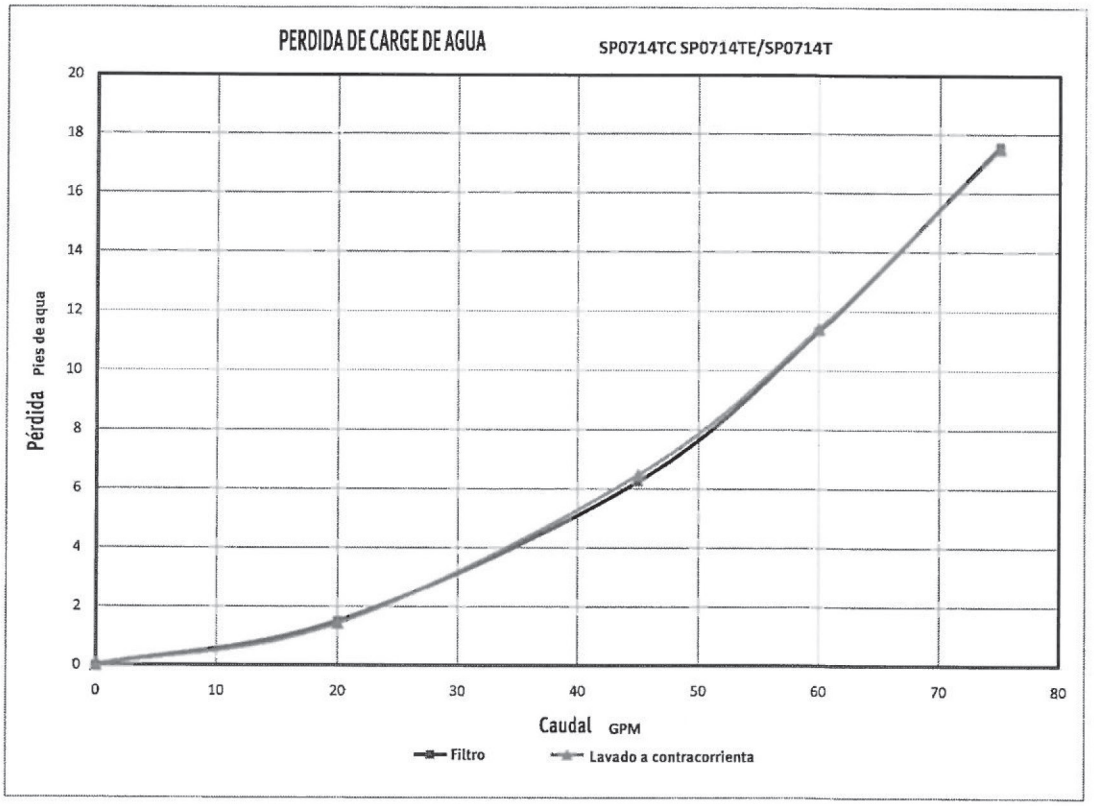
AJUSTES DE LA VÁLVULA	DIRECCIÓN DEL FLUJO A TRAVÉS DE LA VÁLVULA
FILTRO	**BOMBA - ARRIBA - A TRAVÉS DEL FILTRO - PARTE INFERIOR - REGRESO** Para la filtración y aspiración de la piscina a través del filtro.
LAVADO A CONTRACORRIENTE	**BOMBA - ABAJO - A TRAVÉS DEL FILTRO - ARRIBA - DESECHOS** Para limpiar el filtro.
ENJUAGAR	**BOMBA - ARRIBA - A TRAVÉS DE LA VÁLVULA - DESECHOS** Para el arranque inicial y para limpiar la válvula de desechos después del lavado a contracorriente.
DESECHOS	**BOMBA – A TRAVÉS DE LA VÁLVULA - DESECHOS** Para aspirar directamente a los desechos, bajar el nivel de la piscina y/o drenar la piscina.
CERRADA	**NO HAY CIRCULACIÓN PASANDO LA LUMBRERA DE LA BOMBA** Para apagar todo el flujo al filtro y a la piscina.
RECIRCULAR	**BOMBA – A TRAVÉS DE LA VÁLVULA - REGRESO** Para omitir el filtro, pero circulando el agua de la piscina.
INVIERNO	**LA VÁLVULA NO ESTA EN USO** Para preparar para el invierno.

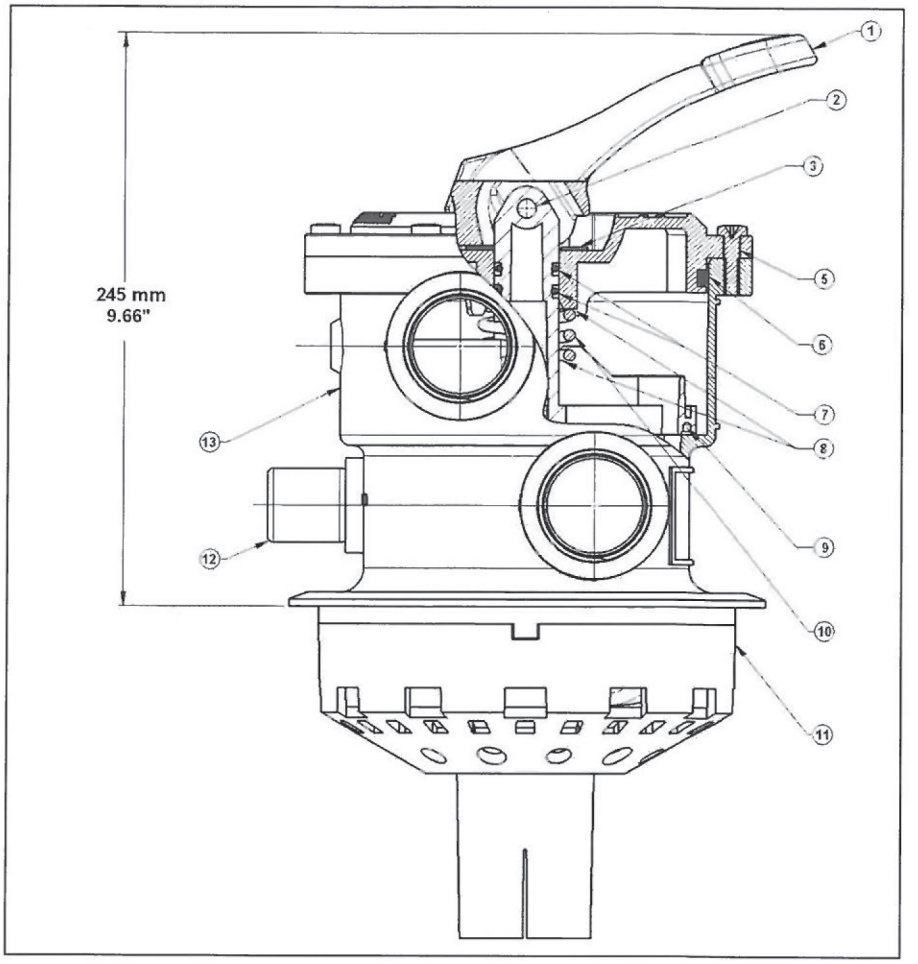
INFORMACIÓN GENERAL

1. Se proporciona una lumbrera roscada para tubería NPT de 1/4 pulgada para usar con un manómetro. (Se proporciona un tapón opcional para la tubería)
2. El ajuste correcto se hace apretando a mano a 1-1/2 giro máximo. Use siempre cinta de teflón para tuberías Permatex No.2 para los conectores para tener un sello "vivo" bueno.
   IMPORTANTE: No apriete demasiado los accesorios de la tubería.
3. PREPARACIÓN PARA EL INVIERNO: Drene y prepare para el invierno el filtro y la bomba de acuerdo a las instrucciones del fabricante. Para drenar agua del Vari-Flo®XL —presione y haga girar la manija de la válvula y coloque el puntro de la válvula en la posición elevada de los cubos del índice en la posición "Winter" (invierno).
4. PARA DAR SERVICIO A LA VÁLVULA: Si es necesario dar servicio o acceder a la llave o al asiento de la junta de la válvula.
   a. Coloque la manija en la posición “Winter” (invierno).
   b. Extraiga los tornillos de la cubierta.
   c. Levante y extraiga el montaje de cubierta y llave.
5. VUELVA A MONTAR LA VÁLVULA:
   a. Limpie la suciedad de la junta tórica (o-ring) de la cubierta.
   b. Coloque la manija en la posición “Winter” (invierno). Alinee la muesca de la cubierta con la lengüeta del cuerpo. Presione hacia abajo para asentar el montaje.
   c. Asegure el montaje al cuerpo usando los tornillos de la cubierta. Comience a enroscar el tornillo en la rosca existente en el cuerpo. Apriete los tornillos de la cubierta de manera uniforme y alternada. No apriete demasiado.

INSTALACIÓN DE LA ABRAZADERA:

1. Para instalar la abrazadera, monte sin apretar ambas mitades de la abrazadera con un tornillo y una tuerca, haciendo girar 2 o 3 giros la tuerca.
2. Instale la abrazadera alrededor del tanque y la brida de la válvula, y luego monte el segundo tornillo y su tuerca.
3. Apriete ambos lados de la abrazadera de manera alternada y uniforme. Utilice un destornillador grande de tamaño adecuado. Apriete firmemente para obtener un buen sello.
4. Asegúrese de colocar las tapas protectoras de vinilo sobre los extremos expuestos de los tornillos.





REPUESTOS			
ÍTEM	Número de parte	Descripción	Cant.
1	SPX0710XF	Manija	1
2	SPX0710XZ7	Pasador de la manija	1
3	SPX0710Z16	Cojinete no metálico	1
4	SPX0714BA	Montaje de llave, cubierta y manija	1
5	SPX0714Z1	Paquete de tornillos de la cubierta (Juego de 6)	1
6	SPX0714L	Junta tórica (O-ring)	1
7	SPX0735GA	Junta tórica (O-ring) del montaje de sello del eje	2
8	SPX0710Z62	Arandelas de resorte (Juego de 2)	1
9	SPX0714CA	Conjunto de llave/sello	1
10	SPX0603S	Resorte	1
11	SPX0714D	Difusor	1
12	SPX0710MA	Conjunto de mirilla con junta y junta tórica (O-Ring)	1
13	SPX0714A	Cuerpo de la válvula con mirilla (Para SP0714T o SP0714TC)	1

USE SOLAMENTE REPUESTOS GENUINOS HAYWARD

REGISTRO DEL PRODUCTO (Guarde en su archivo)
Número de Serie _____ FECHA DE INSTALACIÓN _____

SEPARE AQUÍ: Llene por completo la parte inferior y envíe por correo dentro de 10 días de la compra/instalación o registre el producto en línea.

Válvula de montaje de puertos múltiples

Por favor escriba con claridad en letra de imprenta:

Nombre_____ Apellido_____

Domicilio_____

Ciudad_____ Estado_____

Código postal_____

Número de teléfono_____ Fecha de compra_____

Correo electrónico_____

Número de Serie

Número de Modelo_____

Capacidad de la piscina_____(Galones de los EE.UU.)

☐Por favor inclúyame en todas las comunicaciones por correo electrónico con respecto a equipo o promociones de® Hayward.

Remita por correo a: Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207

Registro de la tarjeta de garantía

Años que la piscina estuvo en servicio

☐< 1 año ☐1-3 ☐4-5 ☐6-10 ☐11-15 ☐>15

Comprado de_____

☐Constructor ☐Minorista ☐Servicio de piscinas

☐Internet/Catálogo

Nombre de la Empresa_____

Dirección_____

Ciudad_____ Estado_____

Código postal_____

Teléfono_____

Tipo de piscina:

☐ Concreto/Gunita ☐ Vinilo ☐ Fibra de vidrio

☐ Otros_____

☐ Instalación nueva ☐ Reemplazo

Instalación para:

☐ Enterrada ☐ Arriba de la superficie ☐ Spa

HAYWARD®