

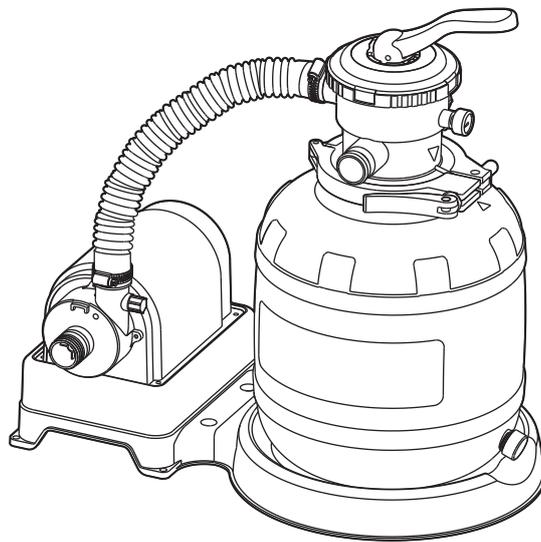
SUMMER WAVES™

USER MANUAL

EN

SAND FILTER PUMP

FOR ABOVE-GROUND SWIMMING POOLS
ST1100 (10") / ST1600 (12") models



READ AND KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Should you encounter a problem with your Polygroup™ product, please DO NOT return the product to the place of purchase. All warranty claims must be made directly to Polygroup™. For any setup and troubleshooting issues, visit support.polygroupstore.com. You may be asked to return all or part of the product for inspection and/or repair. Do not return any product to Polygroup™ without a Return Merchandise Authorization Number.

DISTRIBUTED BY: Polygroup Trading Limited
Unit 606, 6th Floor, Fairmont House,
No.8 Cotton Tree Drive, Central, Hong Kong.

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LIMITED WARRANTY

Polygroup Trading Limited (hereinafter “Polygroup™”) makes products at the best quality we are able to offer. Polygroup™ is pleased to offer warranty for the repair or replacement of pool products for 180 days from the date of purchase. The provisions of this Limited Warranty only apply to the original purchaser. Please keep your original store sales receipt, as this proof of purchase will be required and must accompany warranty claims to Polygroup™ or its designated agents. This Limited Warranty does not apply without proof of purchase; or should the purchaser modify or repair the product themselves or by unauthorized people; use non-Polygroup™ parts or accessories with the product; use the product in contravention of the manufacturer’s instructions; use improper voltage; abuse the product in any way; or through accident or negligence. This Limited Warranty will not cover consequential damages, including claims for loss of water, pool chemicals, damage, or labor, normal wear-and-tear; nor acts of God outside the control of Polygroup™. Non-manufacturing defects, such as grasses that may grow through the ground cloth and/or pool liner are examples of which Polygroup™ cannot be held responsible for.

IN NO EVENT SHALL Polygroup™, ITS AUTHORIZED AGENTS, RELATED ENTITIES, OR EMPLOYEES BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR DIRECT OR CONSEQUENTIAL DAMAGES. Some states or countries, or other jurisdictions, do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty is not extended to close-outs, factory seconds, or resold products (i.e. garage sales, online auctions, or online retailers not purchased directly from Polygroup™). Any issues with items purchased from these types of vendors / sellers will need to be addressed through these stores. Items purchased from seasonal stores will be treated with an “All Sales Final” Policy.



IMPORTANT SAFETY INSTRUCTIONS

When installing and using this product, basic safety precautions should always be followed, including the following:

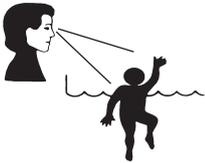
READ AND FOLLOW ALL INSTRUCTIONS

Keep for future reference. Failure to follow these warnings and instructions can result in serious injury or death to users, especially children.

⚠ WARNING

PREVENT DROWNING!

Watch children at all times. Follow all safety rules.



NO DIVING! NO JUMPING!

Shallow Water - You can be permanently injured.



DO NOT SIT ON OR LAY OVER POOL WALL

You can be permanently injured.



AVOID ENTRAPMENT!

Stay away from suction fittings. You may drown.



Please read carefully and keep for future reference

Notice: Customers who purchase pools may be required by local or state law to incur additional expenses when installing a pool, in order to comply with state or local laws regarding fencing and other safety requirements. Customers should contact their local building code enforcement office for further details. Polygroup™ is not responsible for any additional expenses that you may incur.

⚠ WARNING

Safety Care for Children

1. Children, especially children younger than five years old, are at high risk of drowning. Drowning occurs silently and quickly and can occur in as little as 5 cm (2 inch) of water.
2. Keep children in your direct sight, stay close, and actively supervise them when they are in or near this pool and when you are filling and emptying this pool.
3. When searching for a missing child, check the pool first, even if the child is thought to be in the house.
4. Place pumps and filters in places where children cannot climb on them and gain access to the pool.
5. **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

Swimming Pool Barriers

Important:

Swimming pool barriers, which restrict access to the pool by small children, may be required by law. A barrier is necessary to provide protection against potential drowning. Barriers are not a substitute for constant supervision of children. Check state or local laws and codes before setting up pool.

Swimming Pool Equipment

1. Keep all electrical lines, radios, speakers, and other electrical appliances away from the pool.
2. Do not place pool near or under overhead electrical lines.
3. The filter pump is for household use only, not for commercial use.
4. Always unplug the filter pump:
 - a. on raining days.
 - b. before cleaning or other maintenance.
 - c. when leaving it unattended on holidays.
5. Do not plug or unplug the filter pump with wet hands.
6. When the filter pump will be not used for long time, such as in the winter, the spa or pool set should be disassembled and stored indoor.
7. Read the instruction before using the filter pump and assemble/disassemble each time. Cleaning and user maintenance must be performed by an adult over 18 years old who is familiar with the risk of electric shock.

Filter Pump Awareness

1. Following the pool manufacturer's instructions and install your pool properly before installing this filter pump.
2. Adult assembly required.
3. Before starting, check all pipes and accessories for correct installation and reliable connection.
4. Do not bury the electric cords. Place the cords where lawn mowers, hedge trimmers and other equipment will not damage them.
5. Do not use an extension cord to connect unit to electric supply.
6. Prevent children from using the filter pump without an adult's supervision.
7. Do not use the filter pump when pool is empty. This pump is designed only for above-ground pools that can be disassembled, not for permanently installed pools. Improper use may lead to overheating and permanent damage of the product.
8. To avoid the risk of electric shock, always be aware of damaged cords.
9. The power cord of the transformer and the filter pump cannot be replaced. If the cord is damaged, the transformer and the filter pump should be disposed of.
10. To avoid the risk of electric shock, connect the filter pump only to a receptacle protected by a ground fault circuit interrupter (GFCI) or Residual-current device (RCD). The pump must be supplied through a ground fault circuit interrupter (GFCI) or residual current device (RCD) having a rated residual operating current not exceeding 30 mA. Contact a qualified electrician if you cannot verify that the receptacle is GFCI/RCD protected. Use a qualified electrician to install the GFCI/RCD.
11. This appliance can be used by children aged from 8 years old and above and people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
12. Children should be supervised to ensure that they do not play with the appliance.
13. Filter system can be used as many hours as desired, but NEVER when the pool is occupied. The pump must not be used when there is people in the water.
14. Pollution of the liquid could occur due to leakage of lubricants.
15. This pump is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.
16. For continued protection against possible electric shock this unit is to be mounted to the base in accordance with the installation instructions.
17. The Filter Pump is to be assembled by an adult; care should be taken in the unpacking and assembling of the Filter Pump, this pool may contain accessible potentially hazardous sharp edges or sharp points that are a necessary part of the function of the Filter Pump.
18. If a drain or suction outlet cover is missing or broken, do not use the pool. Suction can cause body part entrapment, hair and jewelry entanglement, evisceration, or drowning. Repair or replace the drain or suction outlet cover before allowing the pool to be used. During nighttime pool use, artificial lighting shall be used to illuminate all safety signs, ladders, steps, deck surfaces, and walks.

19. The floor of the pool shall be visible at all times from the outside perimeter of the pool.
20. Post a list of emergency telephone numbers such as the nearest available police, fire, ambulance, and/or rescue unit. These numbers are to be kept near the telephone, which is closest to the pool.
21. Basic lifesaving equipment, including one of the following should be on hand at all times:
 - A light, strong, rigid pole (shepherd's crook) not less than 366 cm (12 ft) long.
 - A minimum 6.35 mm (0.25") diameter rope as long as 1.5 times the maximum width of the pool or 15.2 m (50 ft), whichever is less, which has been firmly attached to a Coast Guard-approved ring buoy having an outside diameter of approximately 38.1 cm (15"), or similarly approved flotation device.
22. For domestic use only.
23. Never leave your child unattended – drowning hazard.
24. Children can drown in very small amounts of water. Empty the pool when not in use.
25. Place the product on a level surface at least 2 m (6.6 ft) from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines or electrical wires.
26. Choking hazard - small parts.
27. Check seams regularly.
28. Use only under competent supervision.
29. The product must be assembled/disassembled by adult.
30. It is essential to change any damaged element or set of elements as soon as possible. Use only parts approved by the person responsible for placing the product on the market.
31. DO NOT overfill the pool and/or allow anyone to lie over or lean on the inflated ring. This will cause the wall of the pool to collapse! Drain the pool to the correct water level after heavy rain.
32. NOTE: DO NOT attempt to assemble this pool when the temperature is below 16°C (60°F).
33. NOTE: This pool can be disassembled and stored away, a procedure which should be carried out when temperatures are expected to fall below 4°C (39°F).
34. NOTE: DO NOT use the pump when people are in the pool.
35. DO NOT CONCEAL THE CORD: Locate the cord away from lawn mowers, brushcutters and other garden equipment.
36. CAUTION: To reduce the risk of electrocution, do not use extension cords to connect the device to the mains supply; provide a suitably located outlet.
37. IMPORTANT NOTE: If you do not use the pump with an electric power supply, you risk damaging the pump or causing an accident.
38. DO NOT REMOVE THE EARTH PIN, DO NOT MODIFY THE PLUG, DO NOT USE AN ADAPTER: Contact a qualified electrician for any problems associated with the earthing of your plugs.
39. Handle the pump with care. Avoid dragging or carrying the pump by its electric cord. Never remove the plug by pulling on the electric cord. The electric cord must be intact. Never expose the pump filter to sharp objects, oil, moving parts or heat.
40. NOTE: Place the pump on a secure, level base. Check that the location of the pool and the pump are sufficiently ventilated, that the water can be drained correctly and that there is sufficient access for cleaning. Never place the pump in a location where water may gather or a high volume of people pass through. The pump must be positioned at least two metres from the pool.
41. The pump's power plug must be located at least 3.5 metres from the pool.
42. After installing the pool, the plug must be easily accessible.
43. NOTE: The weather may compromise the performance and lifespan of your filter pump. If it is exposed to cold, direct sunlight, or heat, it may become unusable so you should protect it from the elements if possible. Before carrying out any maintenance or disassembly of the pump, do not forget to replace the waste filters with the blue inlet and outlet nozzle protectors fitted at the factory.
44. NOTE: Do not operate the device for more than 15 hours per day.
45. NOTE: Do not add any chemical products to the filter pump.
46. It is essential to check that the inlet holes are not blocked.
47. It is recommended that filtration is stopped while maintenance work is being carried out on the filter system.
48. Do not allow the pool to be used if the filter system(s) is/are damaged.
49. It is essential to change any damaged part or parts as soon as possible. Only use parts approved by the marketing authorisation holder.
50. Make sure that people who cannot swim use personal flotation devices.
51. Do not allow races or similar active games to take place around the pool.
52. Do not leave toys near or in the pool when unsupervised.
53. An electronic perimeter or immersion detector which is enabled and functioning. Please note that these devices are in no way intended to act as a substitute for close supervision.
54. Disconnect the pump from the supply mains before carrying out user maintenance such as cleaning the filter.
55. The supply cord cannot be replaced. If the cord is damaged, the appliance should be scrapped.

Circulation Systems

1. Installers shall follow written instructions regarding positioning of all equipment connected to the circulation systems.
2. The installer shall follow written instructions provided for operating the circulation system components.
3. All circulation system components and pump that require replacement or servicing shall be installed according to the pump's instruction manual.

4. Circulation equipment shall be installed per manufacturer's instructions to provide proper mounting and support, to prevent damage from misalignment, settlement, and vibration, and to minimize the potential for the accumulation of debris and moisture. Please refer to pump's instruction manual.

Chemicals

For safety sake, ensure the deepest part of the pool is always visible. The user must properly maintain the clarity of the pool water at all times. Check the pH and chlorine levels periodically and make sure they are within the recommended limits. Additional water treatment chemicals might be needed from time to time. Have the water sample tested by a local pool supply store to determine if additional chemical is needed. Turn on the pump for the recommended hours daily. If you are unsure of the time frames please refer to support.polygroupstore.com for the recommended Pump Operation Hours based on pool types and sizes. Clean and replace filter cartridge frequently. Replace only with genuine Polygroup™ / Summer Waves™ Brand filter cartridge. Refer to the Filter Pump manual for additional water care information.

Entrapment Risk

1. Entrapment Avoidance: There shall be no protrusions or other obstruction in the swimming area, which may cause entrapment or entanglement of the user. If a suction outlet cover is missing or broken, do not use the pool. Suction can cause body part entrapment, hair and jewelry entanglement, evisceration, or drowning. Repair or replace the suction outlet cover before allowing the pool to be used.
2. Danger! To avoid serious injury or death, close the pool or spa to bathers if any suction outlet cover/grate is missing, broken, or inoperative.
3. Never play or swim near drains or suction fittings. Your body or hair may be trapped causing permanent injury or drowning.
4. Never enter the pool or spa if a suction fitting or drain cover is loose, broken, or missing.
5. Immediately notify the pool/spa owner or operator if you find a drain cover loose, broken, or missing.

Drowning Risk

1. Keep unsupervised children from accessing the pool by installing fencing or other approved barriers around all sides of pool. State or local laws or codes may require fencing or other approved barriers. Check state or local laws and codes before setting up pool.
2. Toys, chairs, tables, or similar objects that a young child could climb shall be at least 122 cm (4 ft) from the pool. The pump filter system shall be positioned so as to prevent it being used as a means of access to the pool by young children. Do not leave toys inside pool when pool is not in use, as toys and similar items may attract a child to the pool.
3. Position furniture (for example: tables, chairs) away from pool and so that children cannot climb on it to gain access to the pool.

Electrocution Risk

1. Keep all electrical lines, radios, speakers, and other electrical appliances away from the pool.
2. Do not place pool near or under overhead electrical lines.

First Aid

1. Keep a working phone and a list of emergency numbers near the pool.
2. Become certified in cardiopulmonary resuscitation (CPR). In the event of an emergency, immediate use of CPR can make a lifesaving difference.

Special Warning

1. Local building codes may require obtaining a building or electrical permit. Installer shall follow regulations on setback, barriers, devices, and other conditions.
2. DO NOT attempt to assemble this pool in adverse weather conditions, windy conditions, or when the temperature is below 16°C (60°F).
3. This is a storable filter pump, which should be disassembled and stored when temperatures are expected to fall below 0°C (32°F).

Extra Safety Warning

1. Adult supervision is always required.
2. Parents should learn CPR.
3. Keep all electrical radios, speakers, and other appliances away from the swimming pool.
4. When you touch the filter, pump, or electrical parts, be sure the ground under your feet is “Bone Dry.”
5. Connect power cords to a 3-wire grounding-type outlet only.
6. Keep all breakable objects out of the pool area.
7. Alcohol consumption and pool activities do not mix. Never allow anyone to swim, dive, or slide under the influence of alcohol or drugs.
8. Severe electrical shock could result if you install your pump or filter on a deck. The pump or filter could fall into the water, causing severe shock or electrocution.
9. Do not install on a deck or other surface at, above, or slightly below the top rail of the pool.
10. Do not use the filter pump during severe weather conditions, e.g. thunderstorms, tornadoes, etc.
11. Be aware of overhead power lines when vacuuming your pool or using a telescoping pole.
12. Check regularly for signs of wear or loose bolts that could make the pool unsafe.
13. Please contact pool site dealer or manufacturer for additional safety signs if deemed necessary.
14. Select a certified pool professional. to perform pool service.
ANY MAINTENANCE WORK TO AVOID RISK OF SERIOUS INJURY OR DEATH.
15. GENERAL INFORMATION: The pool must be stored away if temperature is expected to fall below 4°C (39°F).
16. All parts should be cleaned using mild soap and lukewarm water only. DO NOT use detergent or hot water.
17. Make sure that all parts are dry before storing them to prevent mildew from forming.
18. Store all parts in a dry, heated location where temperature does not fall below 4°C (39°F) or exceed 51°C (125°F).
19. Failure to follow the storage instructions could cause damage to your pool and void your warranty.
20. YOU MUST FOLLOW THE ASSEMBLY INSTRUCTIONS TO REASSEMBLE YOUR POOL FOR FUTURE USE.
21. The site for the pool must be cleared and levelled.
22. Do not leave an above-ground pool outside when empty. Cover the pool or disassemble and store the pool when not in use.

Installation recommendation

1. Filter can be permanently accessible and check the type of the filter media on filter packaging.
2. A weekly check is recommended for backwashing or cleaning.
3. It is essential to check that the suction openings are not obstructed.
4. It is advisable to stop the filtration during maintenance operations on the filtration system.
5. Regularly monitor the filter clogging level.
6. Minimum daily filtration operating time is 8 hours.



This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Electrical product waste should not be discarded with household waste, use separate collection facilities.

Contact your local government or council for information regarding the collection systems available.

Maximum Water Temperature: 35°C (95 °F)

Maximum total head: N/A

IMPORTANT NOTES:

1. Keep this product more than 2 m (6.6 ft) away from the pool.
2. Keep the plug of this product more than 3.5 m (11.5 ft) away from the pool.

The UK plug and Australia plug cannot be used outdoors, and can only be plugged into an indoor socket outlet or a waterproof socket outlet.

According to the International Standard, IEC 60364-7-702, on electrical installation of swimming pools and other basins equipment, the following installation distances must be respected:

- The filter pump must be positioned more than 2 m (6.6 ft) away from the pool walls.
- The power cord plugged to the 220-240 V electrical power source of filter pump must be positioned more than 3.5 m (11.5 ft) away from the pool walls.

Check your local authorities to determine the appropriate standard and requirements for “electrical installation of swimming pools and basins equipment”. The following table is for reference only.

Country/Region	Standard Number	Country/Region	Standard Number
International	IEC 60364-7-702	Germany	DIN VDE 0100-702
France	NF C 15-100	Netherlands	NEN 1010-702



SAVE THESE INSTRUCTIONS

PRELIMINARY STEPS

1. READ ALL INSTRUCTIONS CAREFULLY and get a thorough understanding of what is required to assemble your Filter Pump.
2. Before you begin to assemble the pool, identify, count, and check all parts needed for assembly.
3. It is recommended that you have some petroleum jelly (not included) on hand for lubricating the gaskets and o-rings.
4. Installer shall follow the written instructions provided for operation of the filter pump systems.
5. All electrical components shall be installed in accordance with Article 680 of the National Electrical Code (NEC) "Swimming Pools, Fountains and Similar Installations" or its latest approved edition.
6. The Pump are manufactured by Polygroup™ and ETL control number 4000608 and 4006317 - double insulated and grounded - 220-240 V.A.C - 50Hz.

SAND PUMP POWER INFORMATION

Sand Pump Model	Voltage	Wattage	Waterproof Level
10" SAND FILTER (WITH CP2000 PUMP)	220-240 V~, 50 Hz	350 watts	IPX4
12" SAND FILTER (WITH CP2000 PUMP)	220-240 V~, 50 Hz	350 watts	IPX4

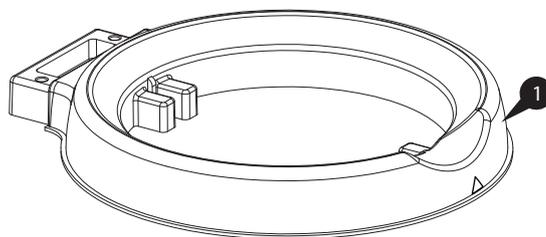
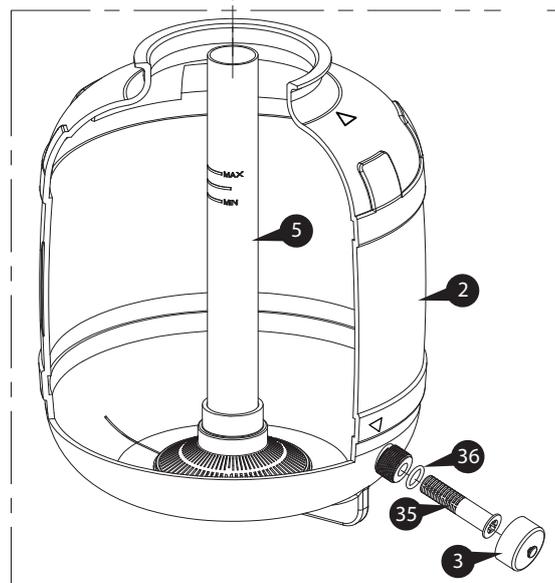
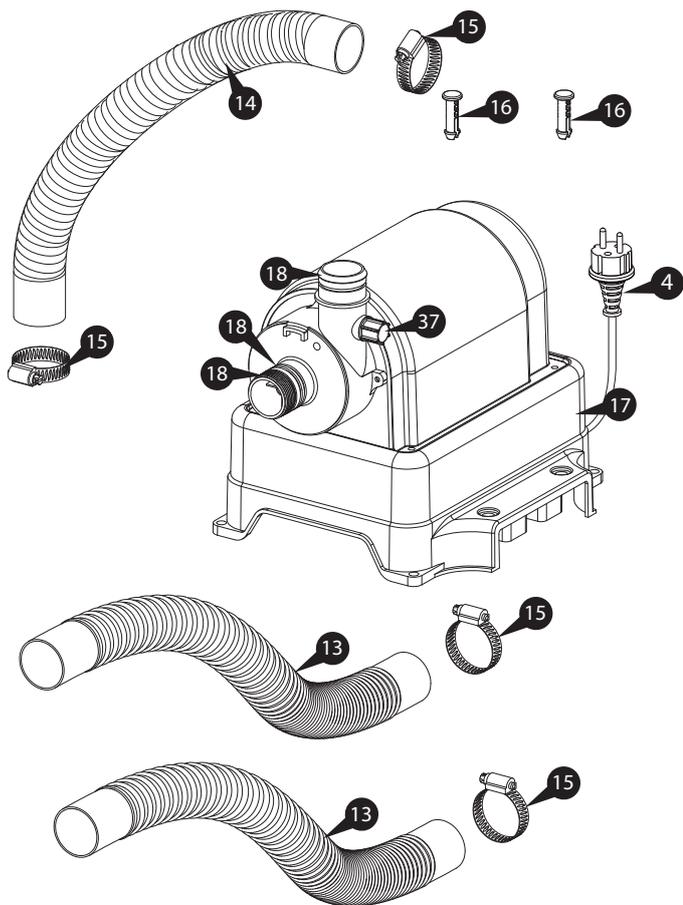
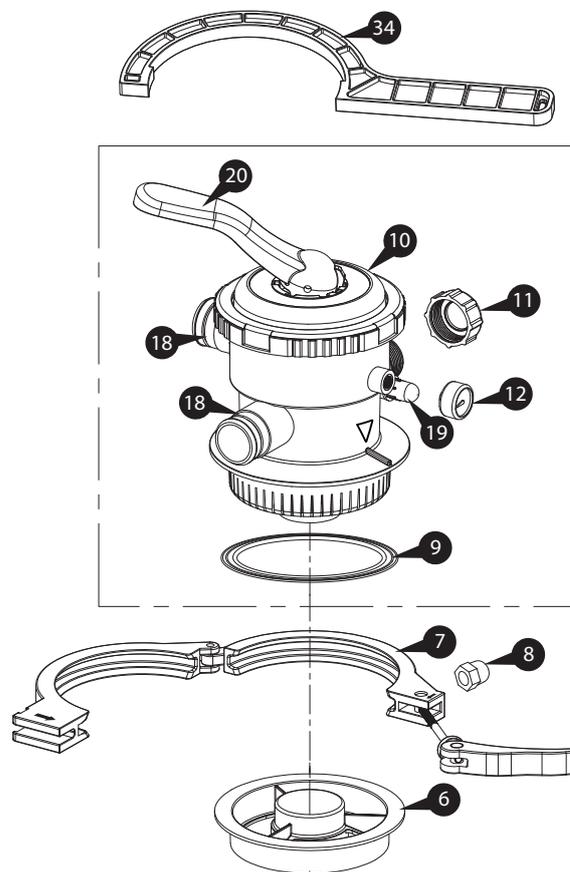
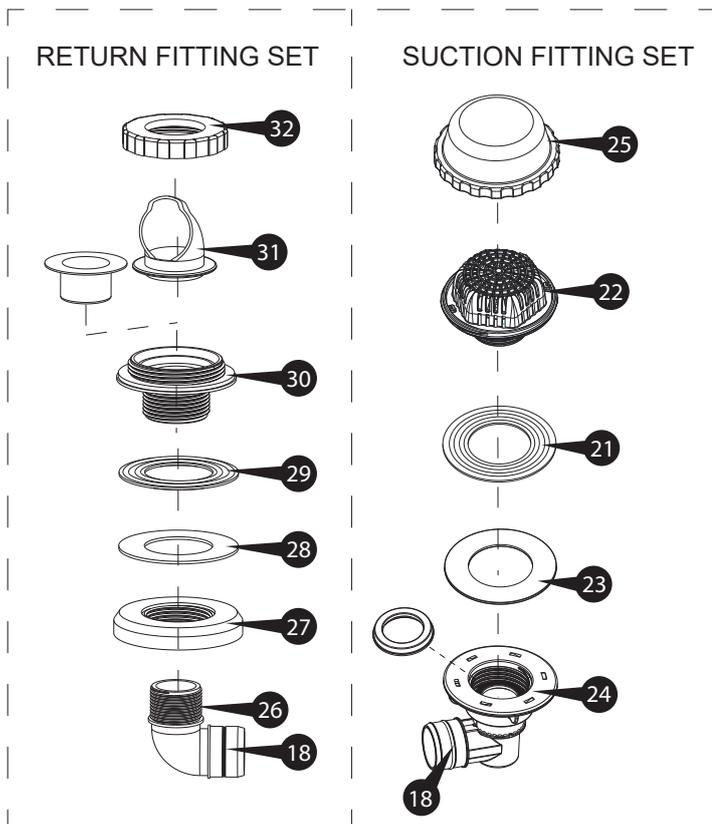
NOTE: For the instructional video on setting up the sand filter pump and pairing it with the pool, visit

support.polygroupstore.com



PARTS LIST

ITEMS	PARTS NAME		QTY.	ITEMS	PARTS NAME	QTY.
①	Sand Tank Base	A) ST1100	1	⑰	Pump	1
		B) ST1600		⑱	1.5" Fitting O-Ring	8
②	Sand Tank	A) ST1100	1	⑲	Drain Indicator	1
		B) ST1600		⑳	6-Port Valve Handle	1
③	Drain Valve Cap		1	㉑	SF Gasket	1
④	Power Cord Set (Image Reference Only)		1	㉒	Suction Fitting (SF)	1
⑤	Center Pipe	A) ST1100	1	㉓	SF Thrust Washer	1
		B) ST1600		㉔	Solo Suction Fitting Lock Nut	1
⑥	Sand Guard		1	㉕	SF Cap	1
⑦	Clamp		1	㉖	RF 90° Elbow	1
⑧	Camshaft Bolt Cap		1	㉗	RF Nut	1
⑨	Gasket		1	㉘	RF Thrust Washer	1
⑩	6-Port Valve		1	㉙	RF Gasket	1
⑪	Blue Drain Outlet Cap		1	㉚	Return Fitting (RF)	1
⑫	Pressure Gauge		1	㉛	Snap On RF Diverter	1
⑬	Long Hose		2	㉜	RF Locking Ring	1
⑭	Short Hose	A) ST1100 12" Hose	1	㉝	RF Service Plug	1
		B) ST1600 16" Hose		㉞	Wrench	1
⑮	Hose Clamp		6	㉟	Drain Valve Filter	1
⑯	Lock Pin		2	㊱	Drain Valve Filter O-Ring	1
				㊲	Vent Cap	1



Sand Specifications:

Fill the tank with #20 silica sand ONLY. You can purchase the sand from your local home improvement or building material stores.

WARNING: Using the incorrect sand may damage the filtration system and will void the warranty.

SETUP INSTRUCTIONS

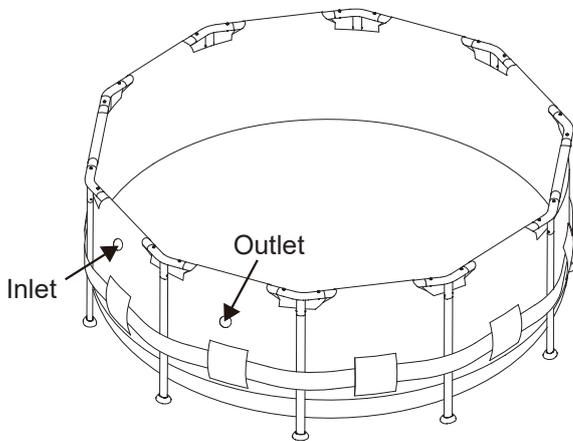
Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.

⚠ WARNING: CLIMBING HAZZARD! PLEASE PREVENT CHILDREN FROM CLIMBING ON THE FILTRATION SYSTEM TO GAIN ACCESS TO THE POOL.

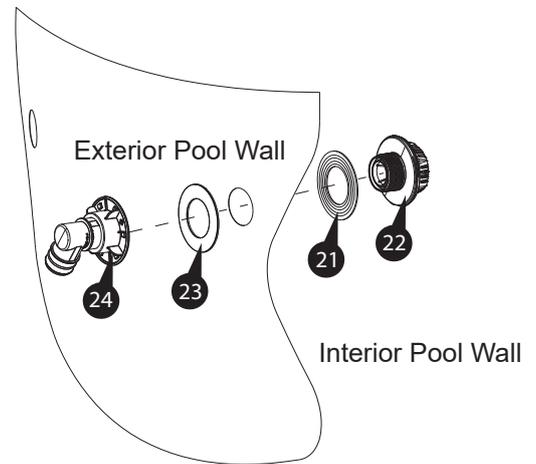
Tools required:

Flat-blade screwdriver (not included)

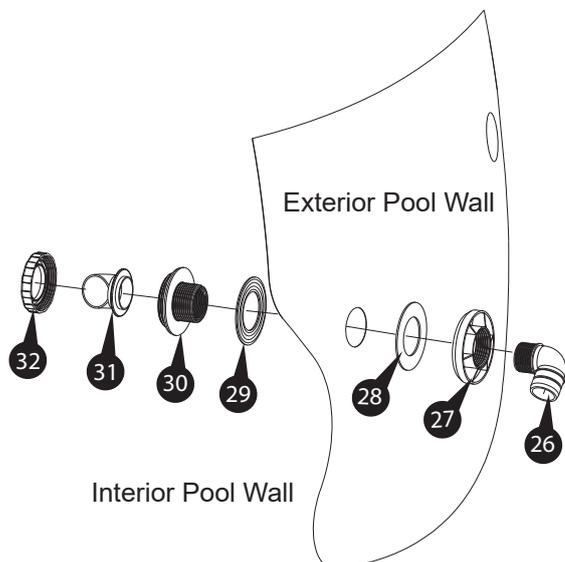
1. Set up the pool by following all the instructions that comes with the pool. Do not fill water until the Filter Pump is properly installed. Locate the Outlet and Inlet openings on the pool wall.



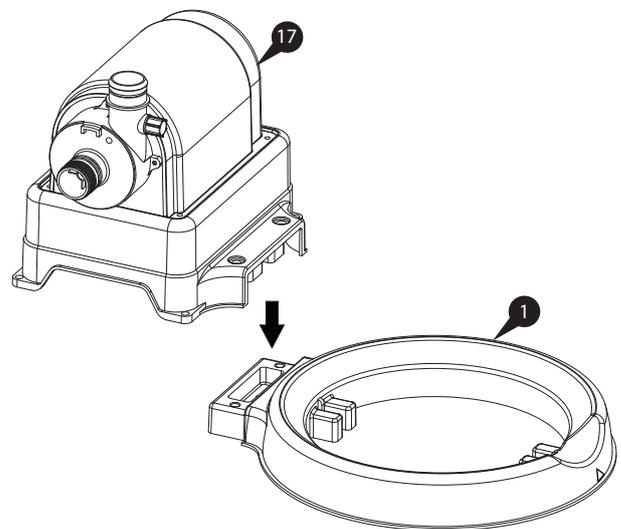
2. Install the Suction Fitting **22** on the Outlet opening of the pool.



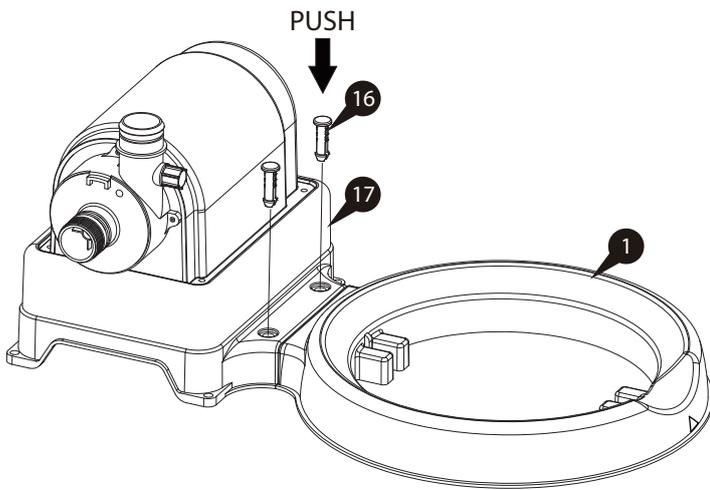
3. Install the Return Fitting **26** on the Inlet opening of the pool.



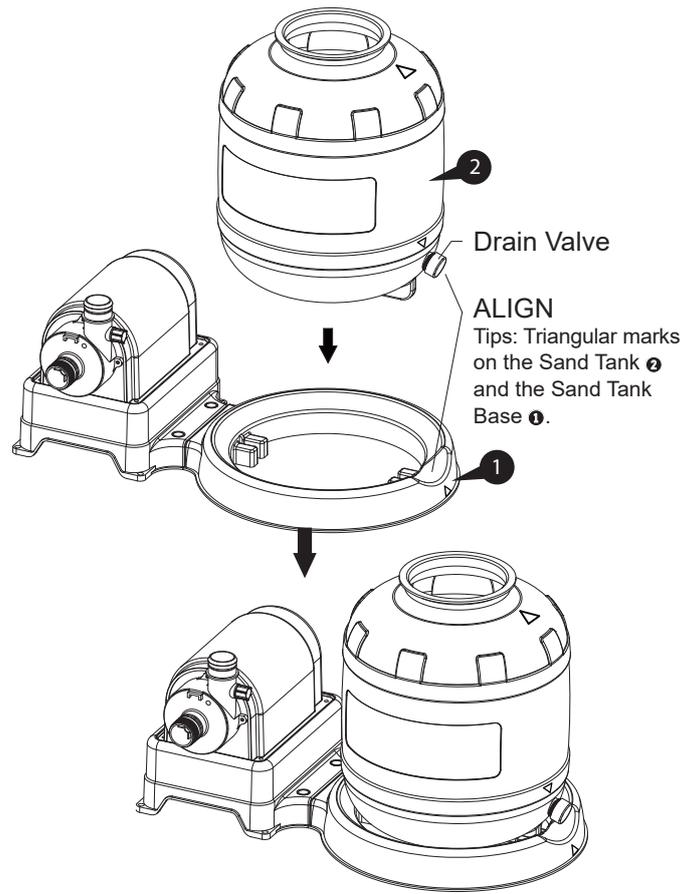
4. Snap the Pump **17** on to the Sand Tank Base **1**.



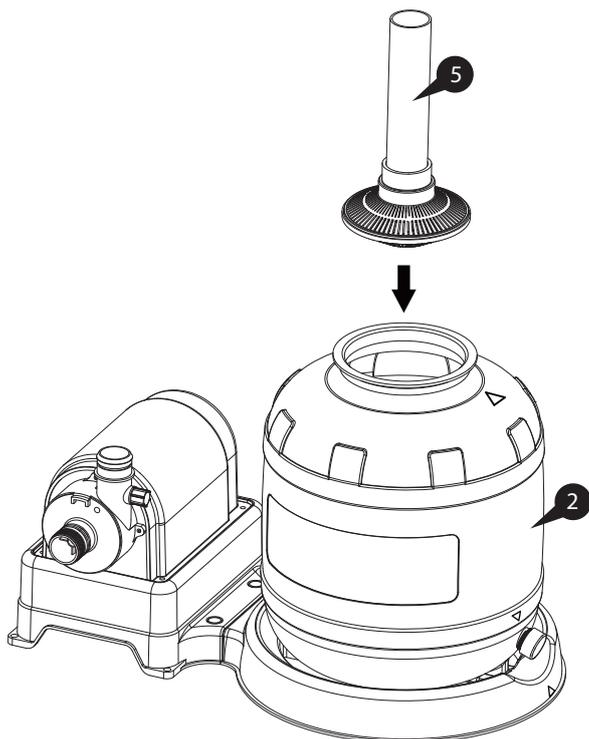
5. Insert and push the Lock Pins **16** all the way down to secure the Pump **17** to the Sand Tank Base **1**.



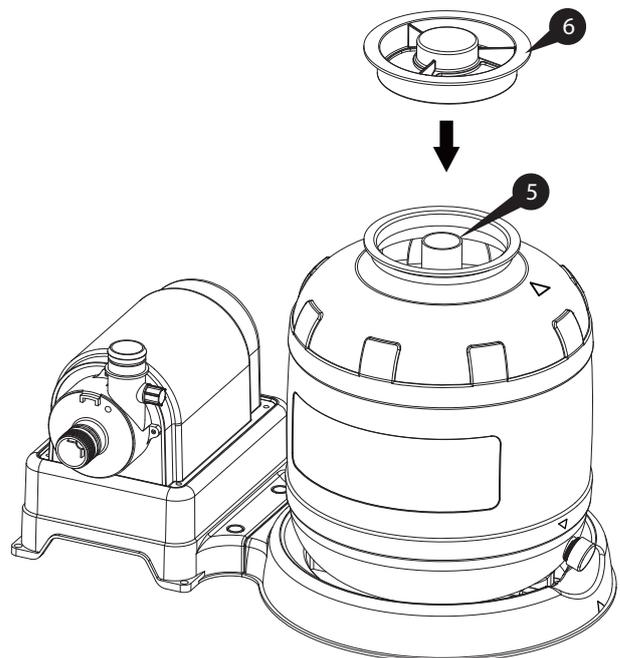
6. With the Drain Valve of the Sand Tank **2** pointing outwards, place the Sand Tank **2** onto the Sand Tank Base **1**.



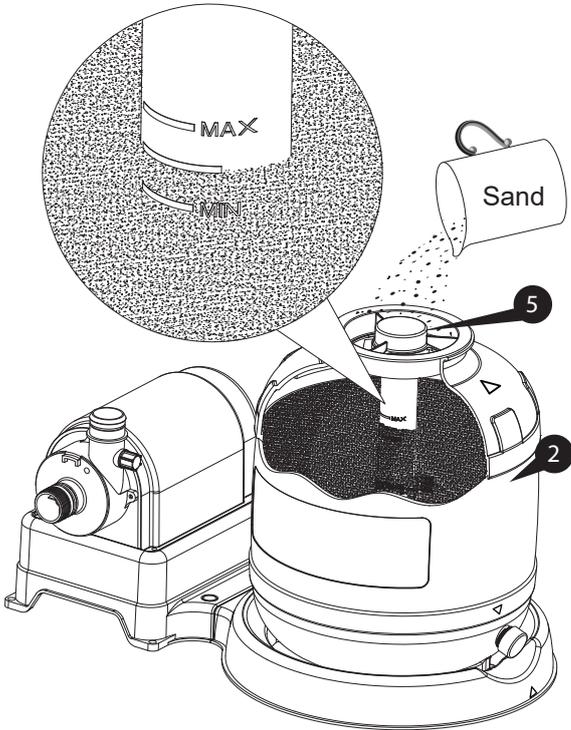
7. Put the Center Pipe **5** into the Sand Tank **2**. Position the Center Pipe **5** at the bottom center of the Sand Tank **2**.



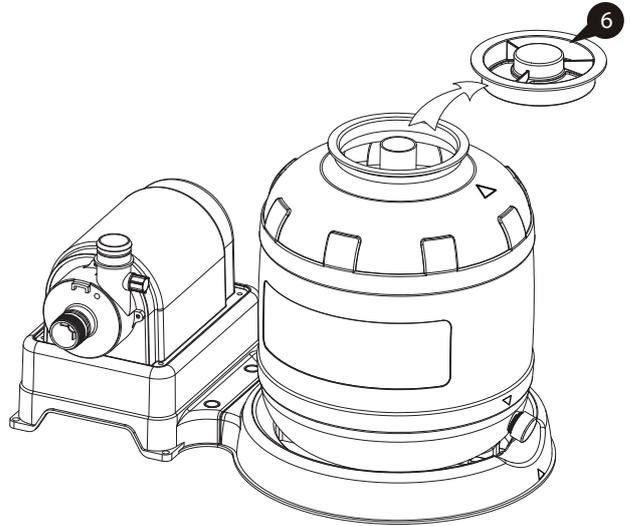
8. Place the Sand Guard **6** over the top opening of the Center Pipe **5**.



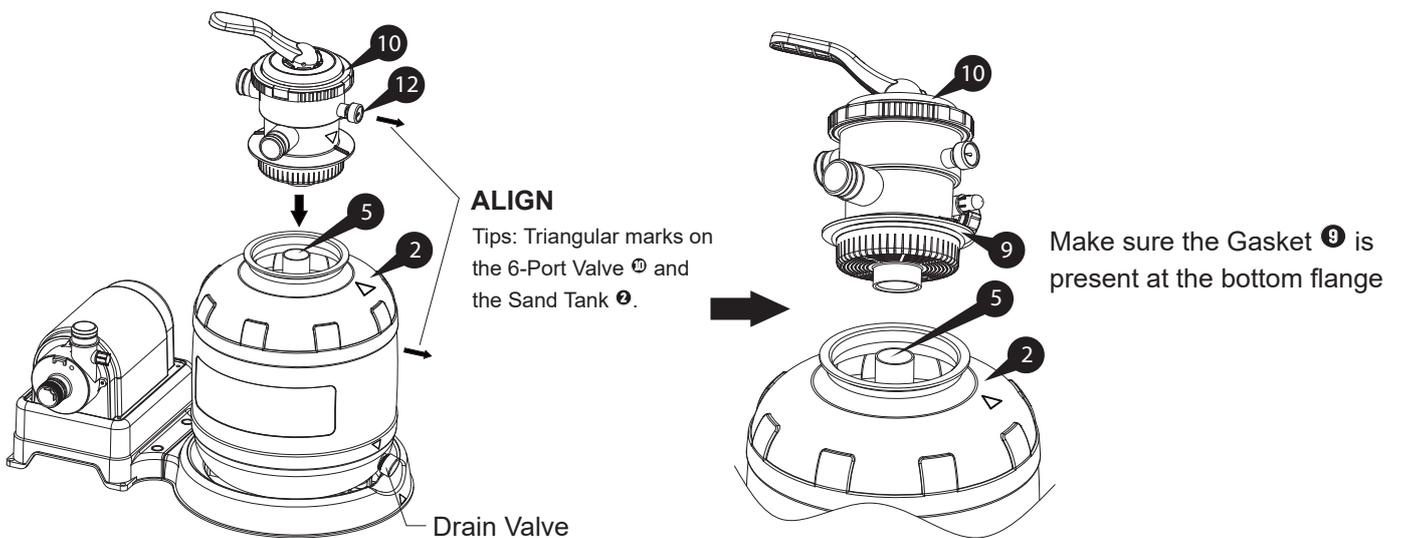
9. **Fill the tank with #20 silica sand ONLY.**
 You can purchase the sand from your local home improvement or building material stores. Slowly pour sand into the Sand Tank **2** until the sand level is between the Min and Max marks on the Center Pipe **5**.



10. Remove the Sand Guard **6** and save for future use.

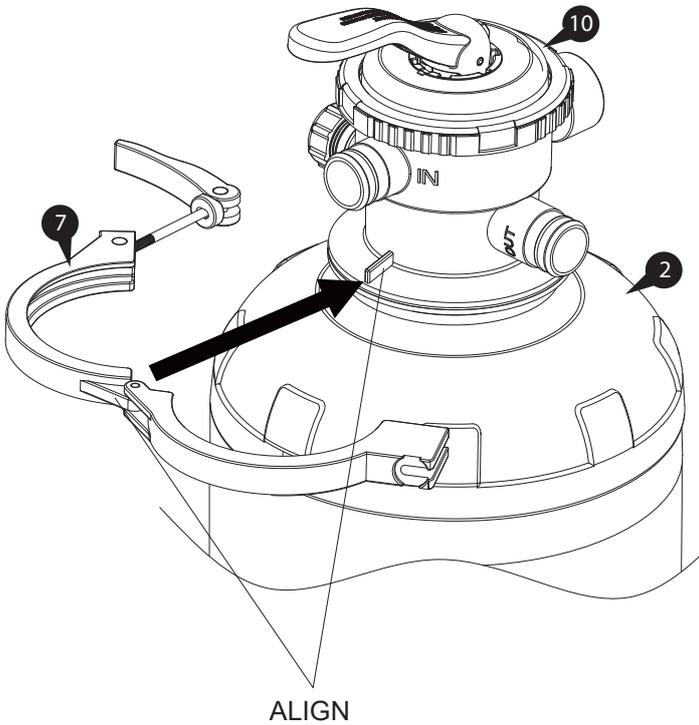


11. Install the 6-Port Valve **10** to the Sand Tank **2**, and ensure it fits securely into the Center Pipe **5**. Rotate the Valve so that the Pressure Gauge **12** is aligned with the Drain Valve.

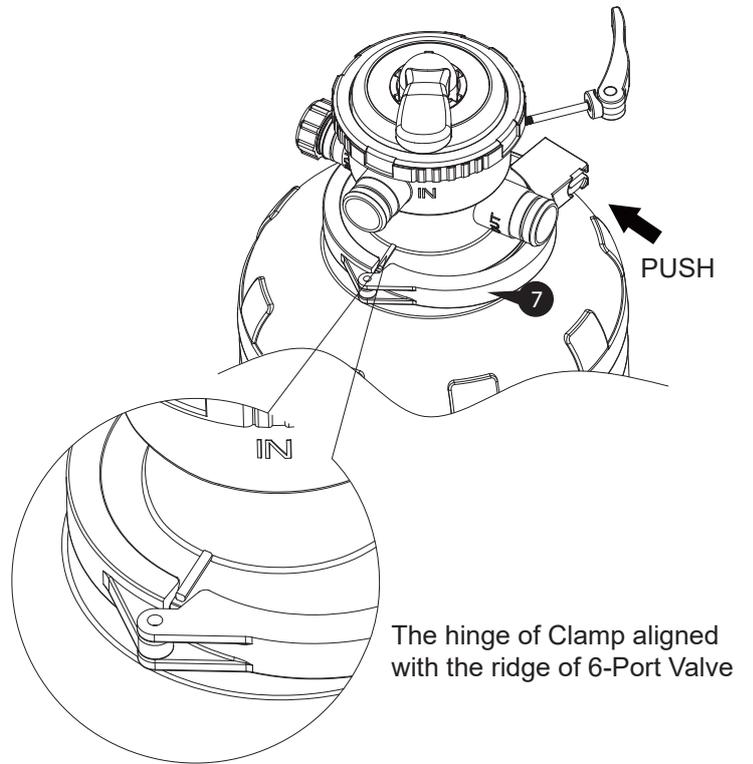


12. Place the Clamp **7** around the flange of the 6-Port Valve **10** and Sand Tank **2**.

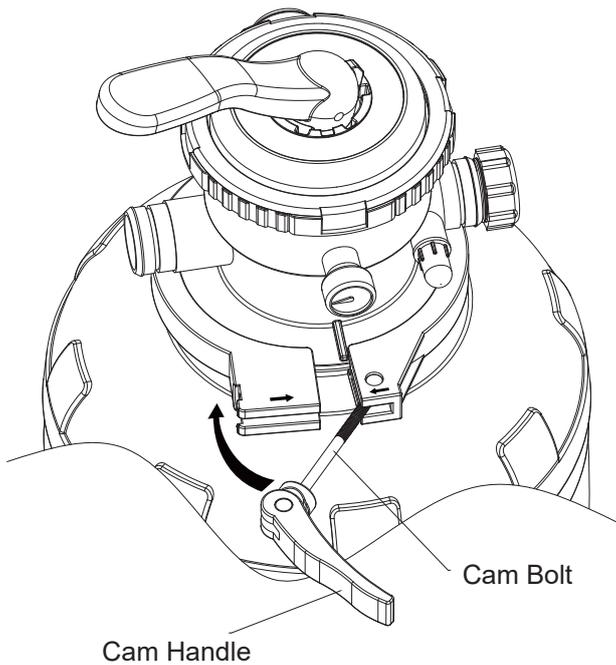
IMPORTANT: Align the hinge on the Clamp **7** with the ridge on the flange of the 6-Port Valve **10**.



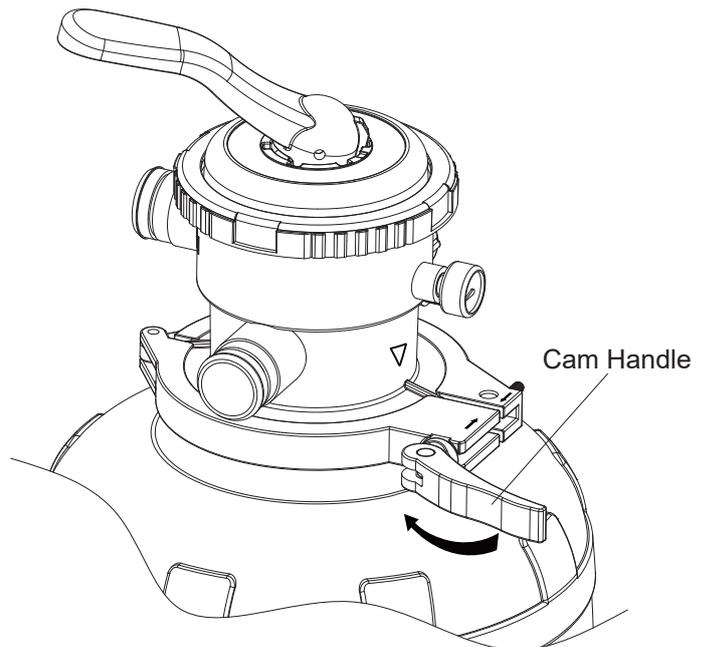
13. Close the Clamp **7** by pushing the two jaws as close together as possible.



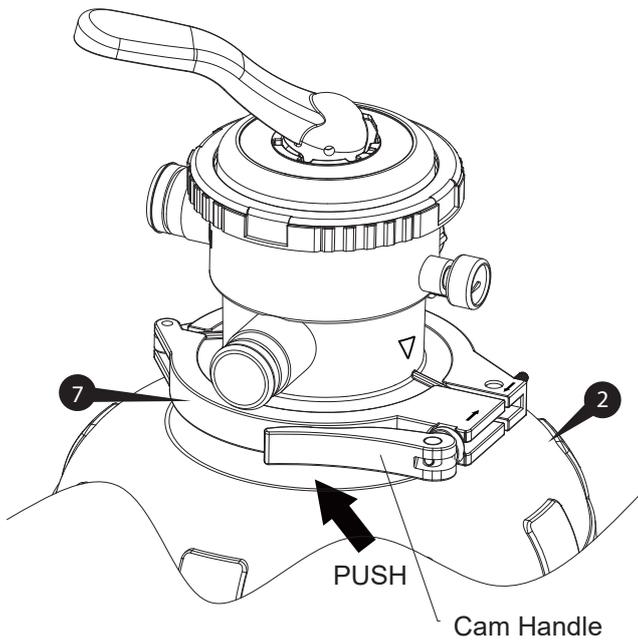
14. Pull on the Cam Handle, and insert the Cam Bolt into the opposite jaw until it locks in place.



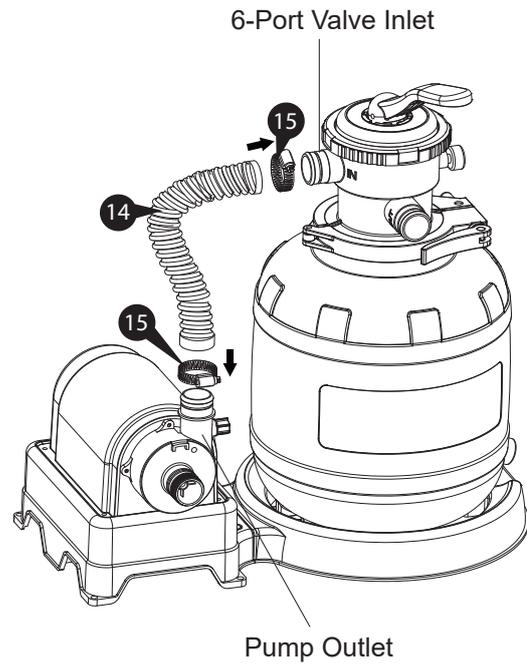
15. Hold the Cam Handle with one hand and start turning in clockwise direction to close the jaws further.



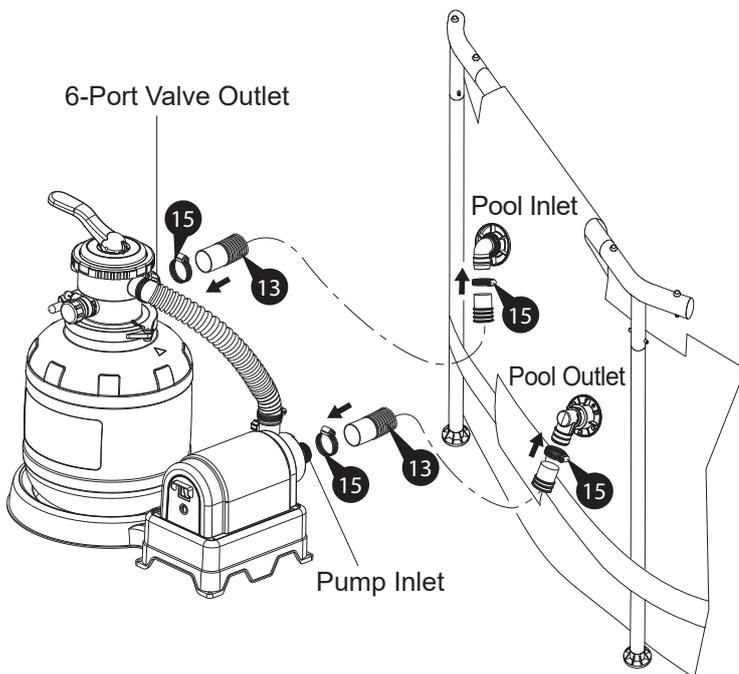
16. When the Clamp **7** is tightened and no more turns can be made, flip and push the Cam Handle towards the Sand Tank **2** to secure.



17. Connect the Short Hose **14** between the Pump Outlet and the 6-Port Valve Inlet. Tighten the Hose Clamps **15** with a flat-blade screwdriver.



18. The sand filter pump is now fully assembled. To install it to the pool, connect the Pump Inlet to the pool Outlet with a Long Hose **13** and one Clamp **15** on each end. Then connect the 6-Port Valve Outlet to the pool Inlet with another Long Hose and Clamps. Tighten all the Clamps with a flat-blade screwdriver.

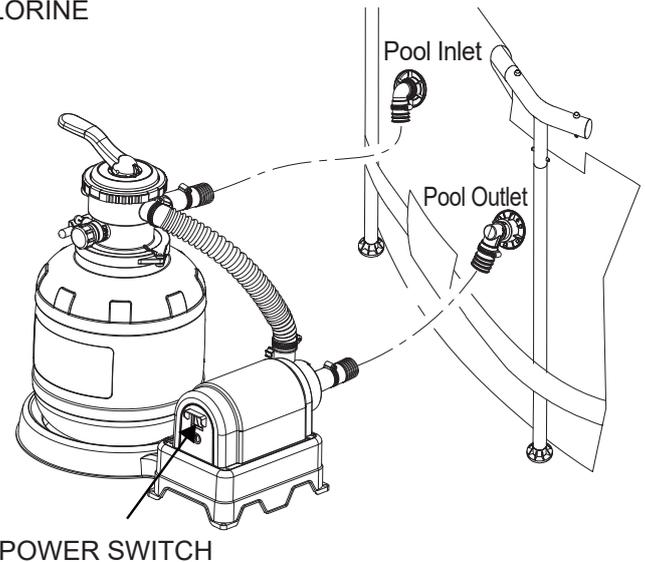


USE OF PUMP

Before using the Pump

IMPORTANT:

1. Make sure to press the pump power switch to OFF before plugging the Power Cord Set ④ into a power outlet.
2. Always PRESS DOWN the 6-Port Valve Handle ⑳ BEFORE switching handle positions.
3. Always BACKWASH the sand before filtering. This prevents fine sand from going to the pool through the pump. Backwashing also washes off the dirt and debris of the sand.
4. Make sure that the Hoses ⑮ ⑭ are firmly secured to the fittings on the pump and the pool.
5. Fill the pool with water up to the FILL LINE. Do NOT dry run the filter pump.
6. FILTER PUMP ALONE WILL NOT PREVENT ALGAE FROM GROWING IN POOL WATER; THIS CAN ONLY BE DONE BY MAINTAINING PROPER CHLORINE AND pH LEVELS AT ALL TIMES. For details, see POOL WATER CARE (p. 16).

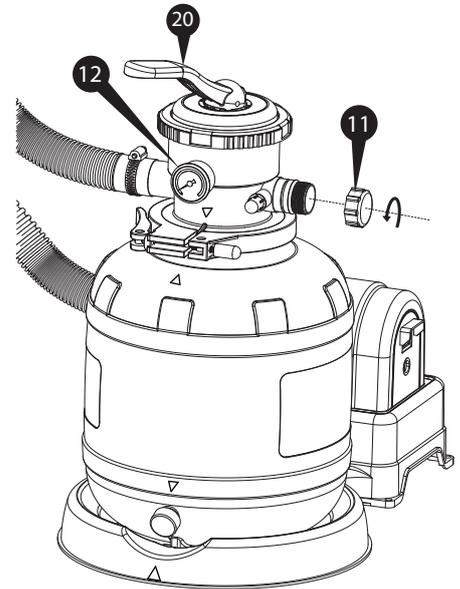


FUNCTIONS OF 6-PORT VALVE

Valve Handle Position	Function	Water Flow Direction
1 BACKWASH	Reverses the water flow to wash the sand. Also prevents fine sand from ending up in your pool. ALWAYS remove the Blue Drain Outlet Cap ⑪ before using this setting. Replace the cap when done. * Backwash the sand when the pressure reading is 1-1.5 bar (14.5-21.8 psi) ABOVE the initial pressure OR at least once every 2 weeks. Continue to backwash until the water from the drain outlet runs clean.	Pool → Pump → Sand (Backward) → Drain Outlet
2 RINSE	Levels out the sand bed after backwashing. ALWAYS remove the Blue Drain Outlet Cap ⑪ before using this setting, and replace the cap when done. Continue to rinse until the water from the drain outlet runs clean.	Pool → Pump → Sand (Forward) → Drain Outlet
3 FILTER	Normal filtration and vacuuming of the pool.	Pool → Pump → Sand (Forward) → Pool
WASTE	Vacuums water directly to drain and lowers the pool water level. ALWAYS remove the Blue Drain Outlet Cap ⑪ before using this setting, and replace the cap when done.	Pool → Pump → Drain Outlet
RECIRCULATE	Recirculates water without filtering.	Pool → Pump → Pool
CLOSED DO NOT SWITCH ON THE PUMP	Shuts off the water flow between the sand filter system and the pool. DO NOT SWITCH ON THE PUMP	No water flow DO NOT SWITCH ON THE PUMP
NULL	For winterizing and storage.	Excess water flow

USE OF PUMP

1. Make sure the pump is switched OFF.
2. Plug the Power Cord Set ④ to a grounded receptacle at least 11.5 feet (3.5 m) away from the pool. Press the RESET button to start the pump.
3. **BACKWASH the sand:**
ALWAYS BACKWASH THE SAND BEFORE FILTERING. This prevents fine sand from going to the pool through the pump.
Backwashing also washes off the dirt and debris of the sand.
 - a. Remove the Blue Drain Outlet Cap ⑪.
(Optionally, connect a 38 mm [1.5"] hose to the drain outlet to direct the waste water to a nearby drain)
 - b. Press down the 6-Port Valve Handle ⑳ and turn it to BACKWASH.
 - c. Switch the pump on. The water should now be circulating backward through the sand bed to the drain outlet. Continue to BACKWASH until the drain water runs clear, or the Drain Indicator ⑲ shows clear water.
 - d. Switch the pump off.
4. **RINSE the sand:**
The RINSE function will clean up and level out the sand bed after each BACKWASHING.
 - a. Press down the 6-Port Valve Handle ⑳ and turn it to RINSE.
 - b. Switch the pump on.
RINSE for ONE MINUTE, then switch the pump off.
 - c. Put back and retighten the Blue Drain Outlet Cap ⑪.
5. **FILTER the pool:**
 - a. Press the 6-Port Valve Handle ⑳ down and turn it to FILTER.
 - b. Switch the pump on.
 - c. Jot down the sand tank pressure reading of Pressure Gauge ⑫.
This reading indicates the "initial pressure", meaning the tank pressure when the sand bed is clean. Backwash the sand bed whenever the reading is 1-1.5 bar (14.5-21.8 psi) above the initial pressure, or once every TWO weeks to maintain water cleanliness.
6. To turn off the pump, press the power switch to OFF and unplug the Set ④.



PUMP MOTOR CARE

IMPORTANT! This Sand Filter Pump is protected by a thermal switch, a safety device that stops the pump from running when it's overheated, to prevent pump damage and prolong service life. If your pump turns off automatically, it's likely the pool water temperature is too high or the water flow through the pump is insufficient for cooling the pump down. Check and correct the water flow and then plug the pump, or run the pump at night when the temperature is lower.

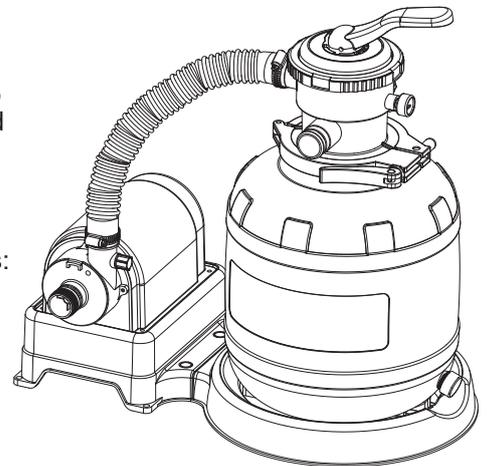
PUMP MAINTENANCE

1. BACKWASH the sand bed when the pressure reading is 1-1.5 bar (14.5 - 21.8 psi) above the initial pressure; or, BACKWASH the sand bed at least once every TWO weeks.
2. Discard all the sand at the end of the season, and wash the pump components, sand tank and 6-port valve thoroughly with fresh water before storage. Fill up with new sand at the beginning of the swimming season.
3. Check the pump output daily. If flow is reduced, see Symptom 3 of **TROUBLESHOOTING GUIDE (p. 20)**.
4. Check the pump, hoses and fittings for leaks. If a leak is found, see Symptom 5 & 6 of **TROUBLESHOOTING GUIDE**.

POOL WATER CARE

1. The following items are required to get your pool ready for use. They are available at polygroupstore.com or your local pool supplies stores:
 - a. **Test kit** – for checking the chlorine and pH levels of the pool water
 - b. **Floating chlorine dispenser (not included) and chlorine tablet** – for water disinfection and prevention of the growth of algae
 - c. **pH control chemicals** – for adjusting the pH level up (soda ash) or down (acid)
 - d. **Algaecides** – to eliminate algae
 - e. **Superchlorinator** – to destroy (“shock”) the combined chlorine, ammonia, nitrogen, and organic compounds that build up in pool water over time and with extended use
 - f. **Leaf net with handle** – for removing leaves, trash, insects, etc. from the pool
2. **IMPORTANT:** It is a **MUST** to maintain the chlorine and pH levels at all times:
 - a. Check and adjust the pH and chlorine levels daily. **FILTER PUMP ALONE WILL NOT PREVENT ALGAE FROM GROWING IN POOL WATER; THIS CAN ONLY BE DONE BY MAINTAINING PROPER CHLORINE AND pH LEVELS AT ALL TIMES.**
 - b. **Recommended pH level:** between 7.3 and 7.8
 - c. **Recommended chlorine level:** between 1.0 ppm and 1.6 ppm
 - d. Superchlorinate your pool at least every other week.
 - e. Hot weather and heavy use may require the pH and chlorine levels to be maintained on the upper side of the scale as well as a weekly superchlorination.
 - f. Using a pool and/or solar cover will help maintain the pH and chlorine levels by reducing evaporation of pool water.
 - g. **CAUTION:** High chlorine concentration and low pH level will damage the pool/pool liner. You must follow the instructions on quantity and safe usage of the pool chemicals you use.
NEVER drop lumps or pellets of chemicals into the pool – this may present a hazard to the swimmers and/or damage your pool liner.
3. Clean your pool regularly using a maintenance kit with vacuum. You can get the kit from polygroupstore.com.
4. Using a foot bath prior to entering the pool will help keep the pool clean.
5. Avoid using well water. If you must use well water, always seek professional advice from your local pool chemical suppliers before chemicals into it.
6. Find out the water capacity (in gallons) of your pool from the pool Owner’s Manual. You will need it to determine the amount of chemicals required, or when you contact a pool supplies expert for water testing and advice on safe use of chemicals.

NOTE: Always follow the manufacturer label directions of the chemicals you choose to use.



TROUBLESHOOTING GUIDE

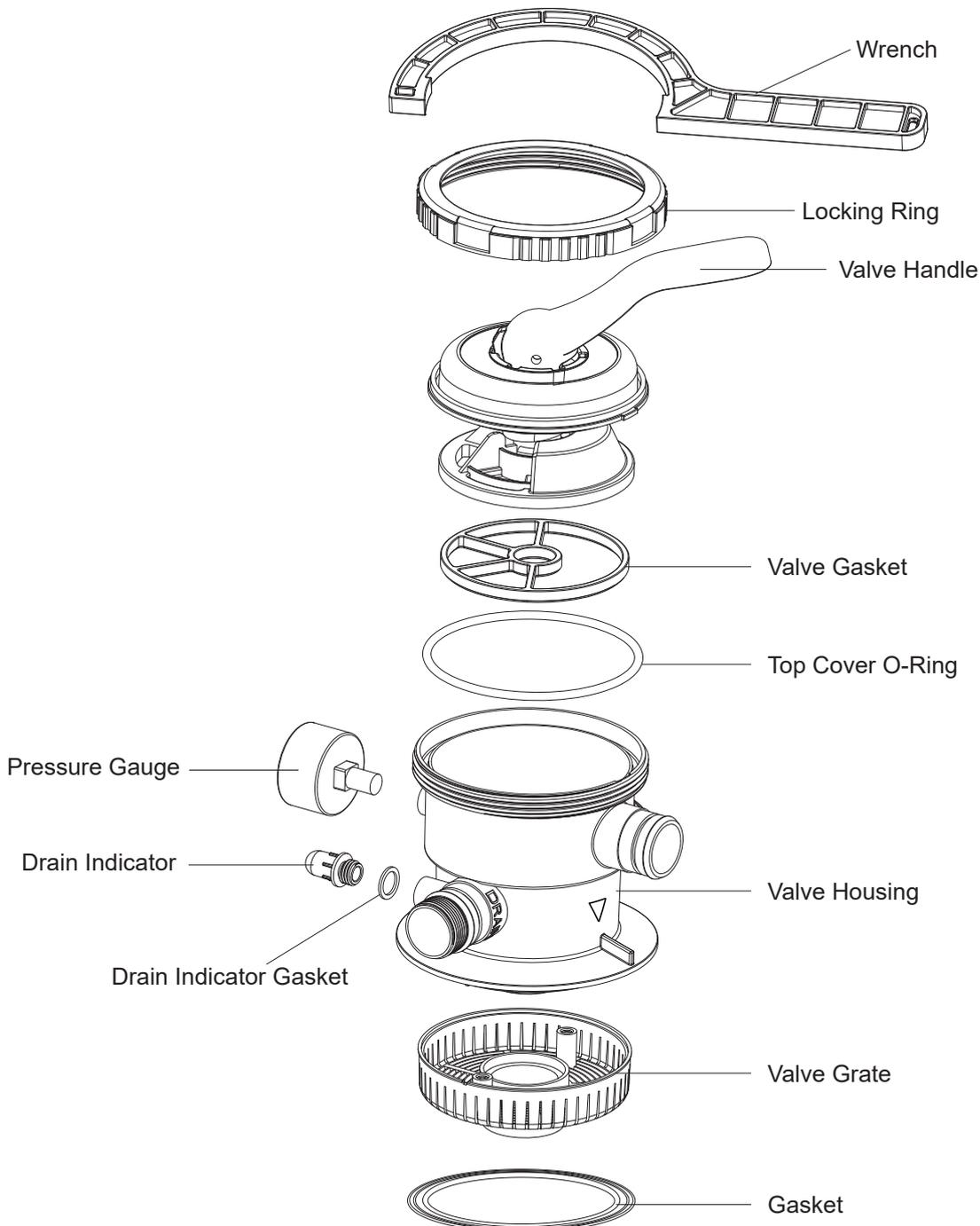
⚠ WARNING: TURN OFF THE PUMP AND UNPLUG THE POWER CORD BEFORE TROUBLESHOOTING THE FILTER PUMP.

Problem	Cause	Solution
1. The Pump motor fails to start	A. The Pump not plugged in OR the Power Cord Set ❶ not activated	A. The Set must be plugged into a grounded power outlet. Then press the RESET button to start the Pump.
	B. Low voltage	B. Check and make sure the line voltage is between 215 V AC and 245 V AC.
	C. The Power Cord Set ❶ and/or circuit breaker tripped	C. If problem persists, have the circuit checked by a qualified electrician.
	D. The Pump motor is too hot, and the thermal safety switch shut it off	D. Let the motor cool down and restart the Pump.
2. The Sand Filter doesn't clean the pool	A. Inadequate chlorine or pH level	A. Adjust the chlorine and pH levels. Consult your local pool supplies stores.
	B. No sand in the Sand Tank ❷	B. Fill sand in as per SETUP INSTRUCTIONS (8)-(10) on p. 10-11.
	C. Wrong 6-Port Valve ❶ setting	C. Set the Valve Handle ❷ to "FILTER" position.
	D. The pool is too dirty	D. Run the Pump longer.
	E. Clogged Suction Fitting ❷	E. Clean the strainer of the Suction Fitting.
3. The Sand Filter doesn't pump water, or the flow is very slow	A. Clogged Suction Fitting ❷ or inlet of the Pump	A. Clean the Suction Fitting and the Hose ❸ connecting it to the Pump inlet.
	B. An air leak on the intake Hose ❸	B. Check the Hose for damage; tighten the Hose Clamps ❶, and check the pool water level.
	C. The sand is too dirty	C. Backwash the sand more frequently.
	D. Crusting or caking of sand surface	D. Replace about 25 mm (1") of the sand, or all the sand if problem persists.
	E. A pool vacuuming device is attached to the Pump	E. Remove the device.
4. The Pump doesn't work	A. Low water level	A. Fill water up to the FILL LINE marked on the pool wall.
	B. Clogged Suction Fitting ❷ strainer	B. Clean the strainer.
	C. An air leak on the intake Hose ❸	C. Check the Hose for damage; tighten the Hose Clamps ❶, and check the pool water level.
	D. Faulty motor or the impeller is jammed	D. Contact our Customer Service.
5. The 6-Port Valve ❶ or its locking ring is leaking	A. The Gasket ❸ is missing	A. Remove the 6-Port Valve ❶ and check to ensure the Gasket is in place.
	B. The Gasket ❸ is dirty	B. Clean the Gasket with garden hose water.
	C. Loose Hose Clamps ❶	C. Tighten/reinstall the Clamps.
	D. Faulty 6-Port Valve	D. Contact our Customer Service.
6. Water leakage at	A1. The connection between the Suction Fitting ❷ & the Suction Fitting Lock Nut ❸	A1. Check the connection between Suction Fitting ❷ and the Suction Fitting Lock Nut ❸. If a loose or unbalanced connection is found, re-tighten the Suction Fitting ❷ with the Suction Fitting Lock Nut ❸, make sure they are screwed tightly. Note: Water may still drip out from the connection after the lock nut is re-tightened. There could be water trapped within the connection of the lock nut from before. Simply let the residue water drip out. This may take a few hours for the connection to be completely dry.
	A2. The connection between the Suction ❷ / Return ❹ Fittings and the Hose ❸	A2. Check that the Hose Clamps ❶ are properly secured over both the Hoses ❸ and their O-rings ❹; adjust and re-tighten if necessary. Also, check the Hoses for cracks or holes and replace as needed.
	B. The Hose connections	B. Ensure that the O-Rings ❹ are in place and intact.
7. Pressure Gauge ❷ doesn't work	A. Clogged inlet of the Pressure Gauge	A. Unscrew and remove the Gauge, then clear any obstructions in its inlet.
	B. Faulty Pressure Gauge	B. Contact our Customer Service.
8. Sand ended up in the pool	A. The sand is too small for the Pump	A. Use only #20 grade silica sand with particle size range 0.45-0.85 mm (0.018-0.033 inches) and uniformity coefficient less than 1.75
	B. The sand bed is calcified	B. Discard all the used sand and replace with new sand.

WINTERIZING, DISASSEMBLY & STORAGE

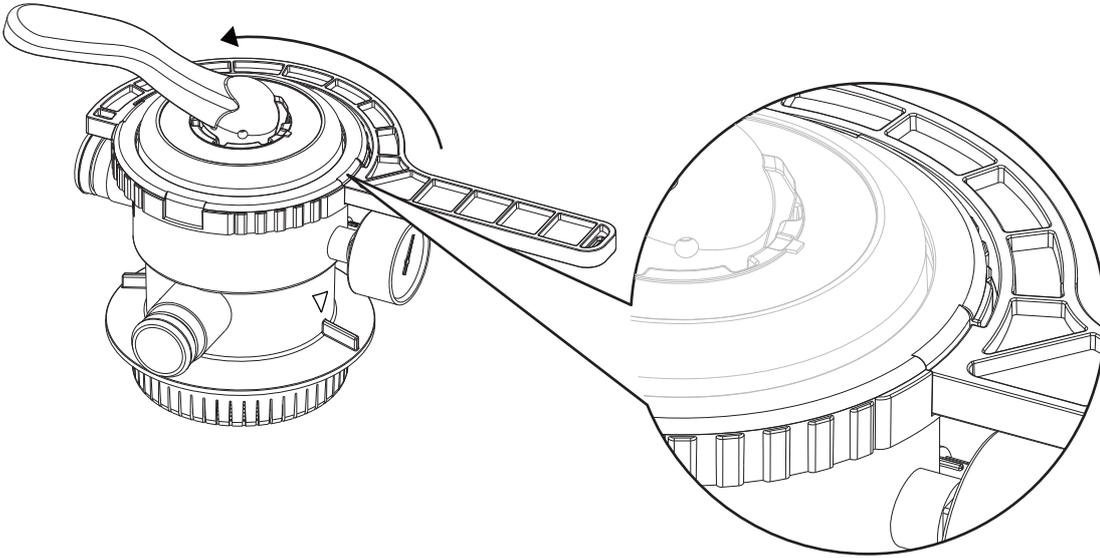
1. First, unplug the Power Cord Set **4** of the system.
2. Loosen all Hose Clamps **15**. Remove the Hose **13** **14** and allow water to drain.
3. Remove Drain Valve Cap **3** from the Sand Tank **2** and allow water to drain. Replace and tighten the Drain Valve Cap **3**.
4. Clear and lubricate all Fitting O-Rings **16** with petroleum jelly.
5. Turn the 6-Port Valve Handle **20** to "NULL" position.
6. Allow the sand filter pump to dry completely. Store the sand filter pump in a cool and dry location away from direct sun light.
7. All items should be stored in a dry environment that remains above 0°C (32°F) at all times.

6-PORT VALVE PARTS LIST

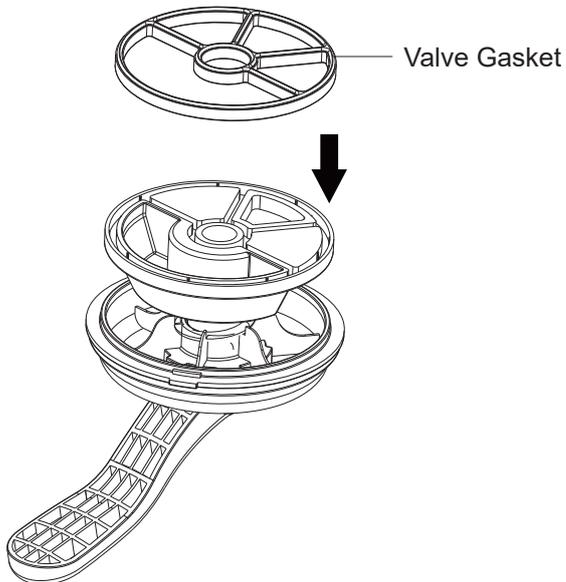


6-PORT VALVE SETUP

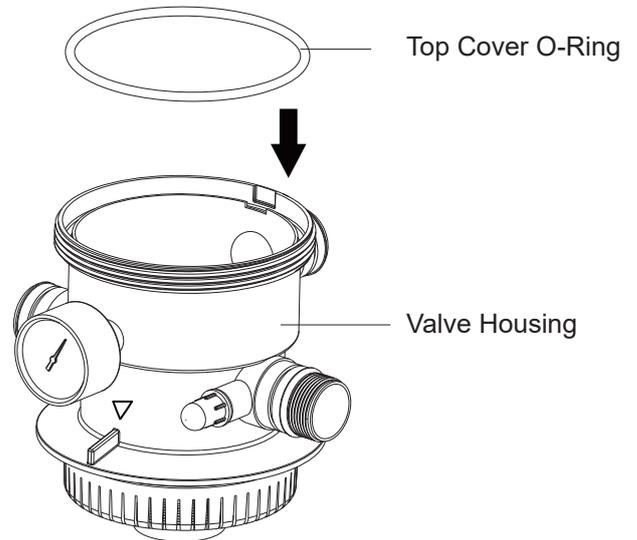
1. Using the Wrench, twist counterclockwise to loosen and remove the Locking Ring.



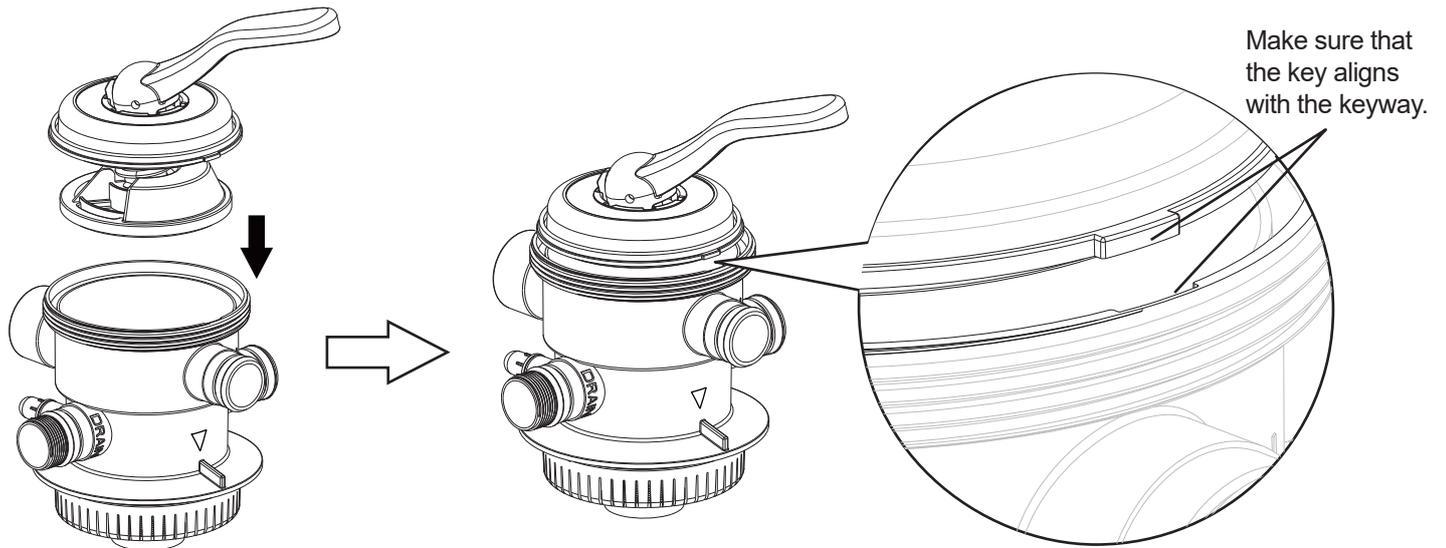
2. Fit the Gasket in place.



3. Insert the Top Cover O-Ring into the groove of the Valve Housing.

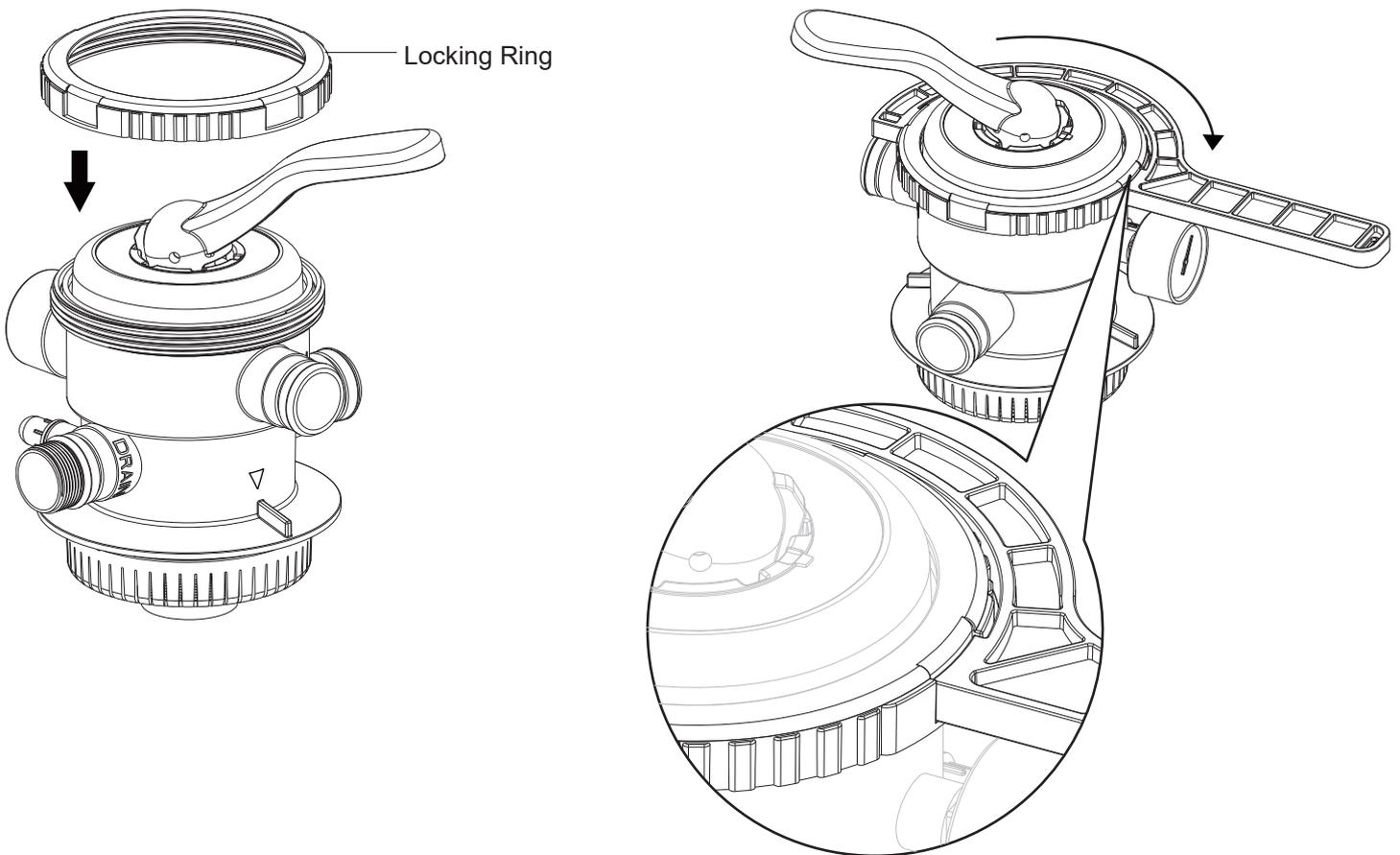


4. Insert the Valve Handle into the Valve Housing.



5. Place the Locking Ring over the Valve Housing.

6. Tighten the Locking Ring with the Wrench.



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