

# SAND FILTER INSTRUCTIONS

## INGROUND FILTERS

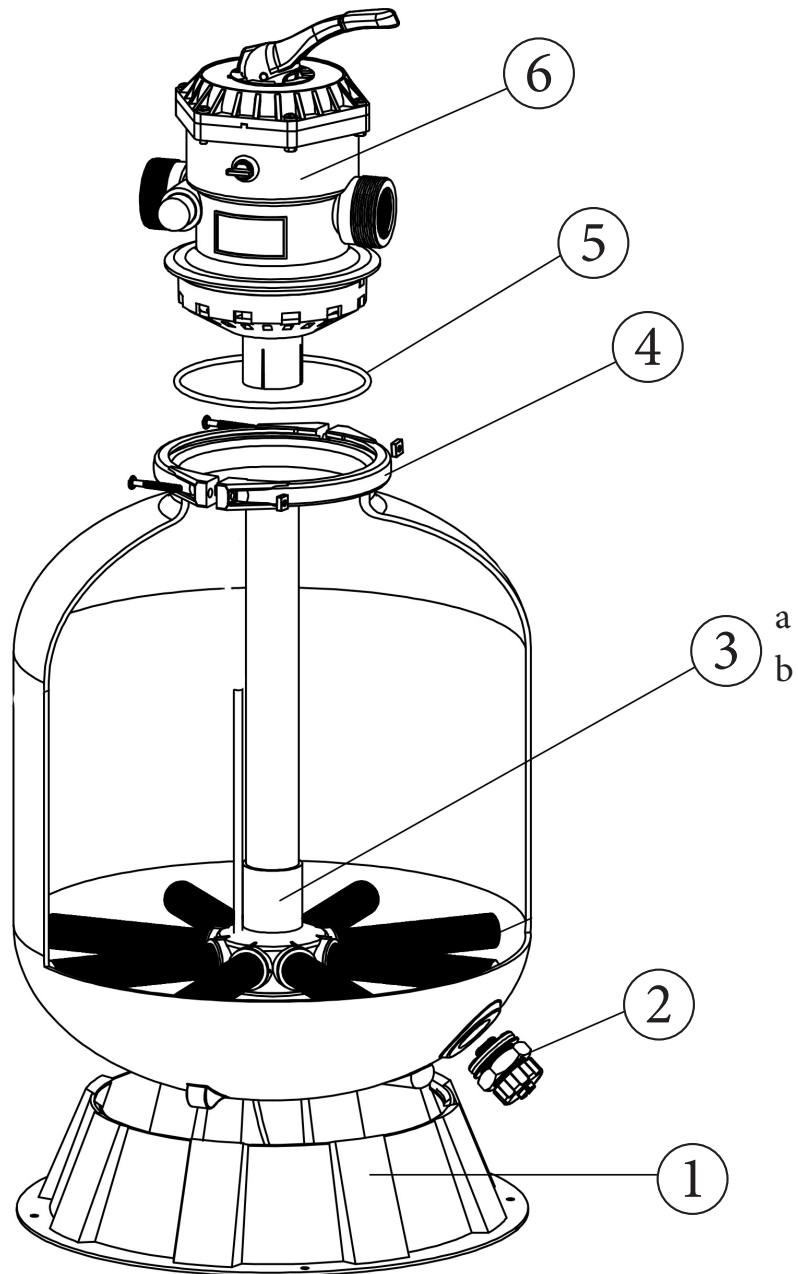


**AC 316GS, AC 366**

### **TOOLS REQUIRED**

- Phillips head screwdriver
- Flat head screwdriver
- O-ring lube

## SAND FILTERS 316 & 366 PARTS



REF #	MODEL #	DESCRIPTION	316	366
1	AC 18120	Support Base	X	X
2	AC 17647	Drain Plug	X	X
3A	AC 15245	Folding Lateral 31"	X	
3B	AC 34495	Folding Lateral 36"		X
4	AC 18608	Flange Clamp	X	X
5	AC 18609	Clamp O-Ring	X	X
6	AC 93408	6 Way Valve	X	X

# ASSEMBLY INSTRUCTIONS FOR SAND FILTER

## STEP 1

- Using Phillips head screwdriver, remove the closure clamp from the valve assembly. *You only need to unscrew one side completely as it can be removed and reinstalled without unscrewing both screws.*
- Remove the valve from the tank and place it to the side until instructed to reattach it.

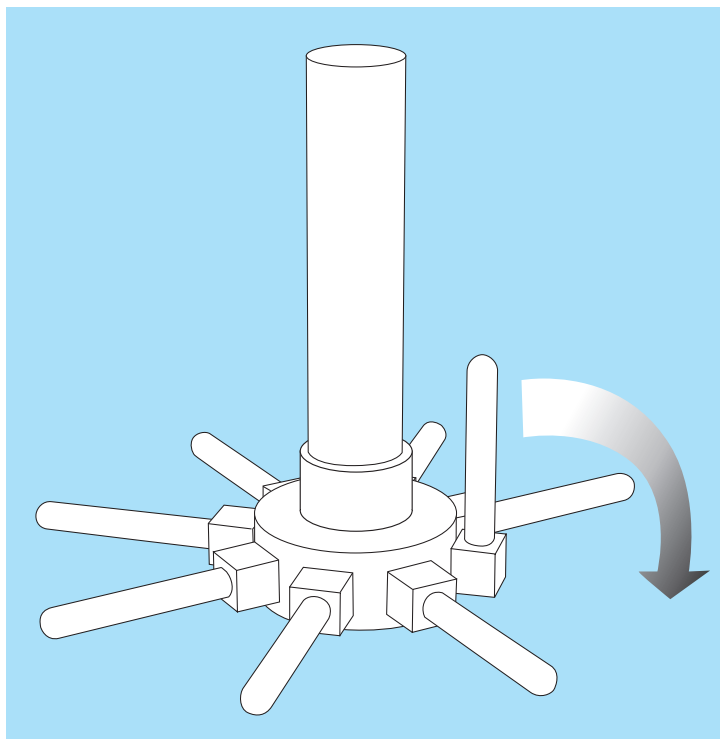
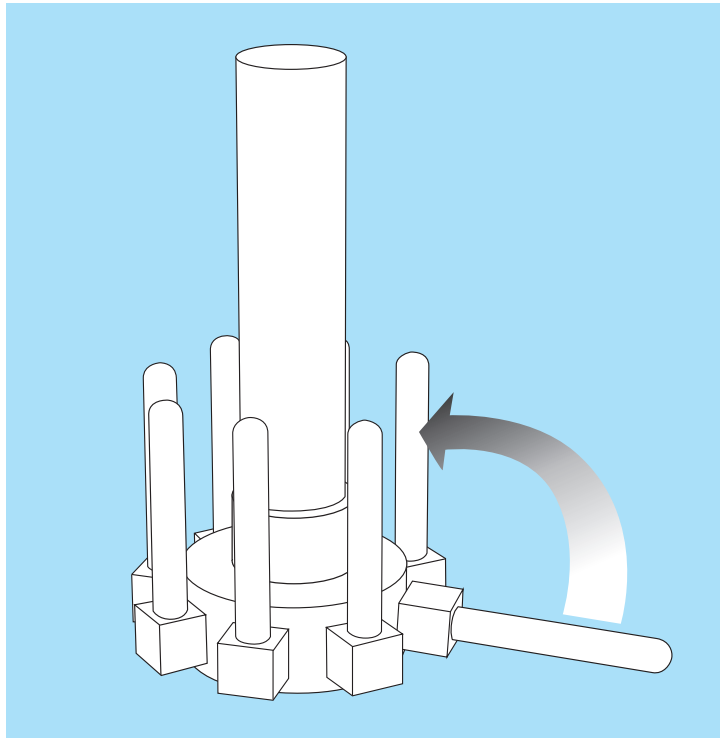


- Inside the tank you will find the standpipe with Folding Laterals.



**NOTE** Filter is partially assembled; however, nothing has been properly tightened. **DO NOT** operate filter system without completing assembly instructions.

## FOR 31" and 36" SAND TANKS



- 31" and 36" diameter filters use a folding lateral underdrain
- Position underdrain in tank
- "Unfold" the laterals downward—they pivot into position
- Set underdrain assembly into bottom of tank

## STEP 2

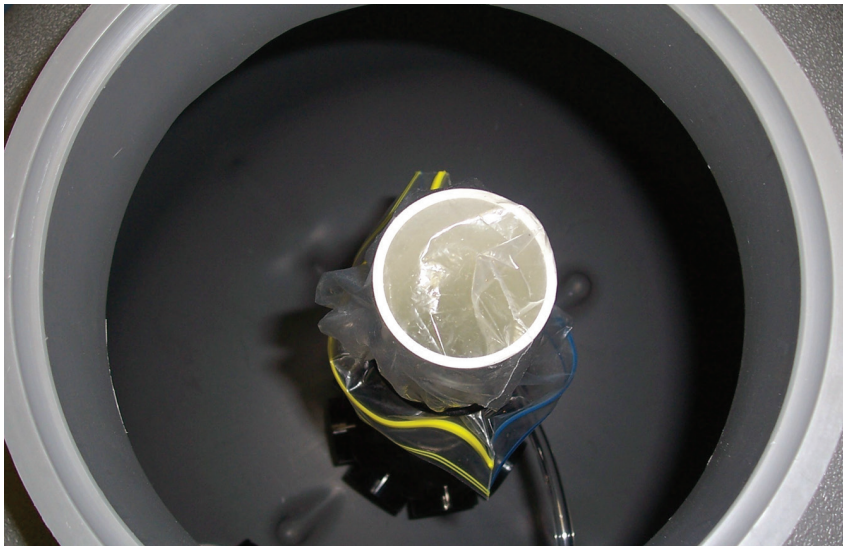
- The filter and pump should be attached to the base prior to filling the filter with sand as it will be difficult to maneuver after the tank is full.

## STEP 3



- Before filling tank with sand, cover standpipe with a plastic bag to prevent sand from entering standpipe. Secure in place with rubber band so it does not fall off.
- Once bag is secured, place standpipe in the bottom of the sand tank. Make sure pipe is centered in tank **BEFORE** pouring sand into tank because you will NOT be able to move it once sand is in.

**NOTE** Sand should be filled no less than 1/2 way up the tank and no more than 3/4. Over-filling will result in permanent damage to your Filter System.





## STEP 3 — CONTINUED

- Add filter grade sand (sold separately) to filter tank around standpipe. The approximate amount of sand necessary will vary based on the size filter you purchased.

31" Tank .... 500 Lbs.

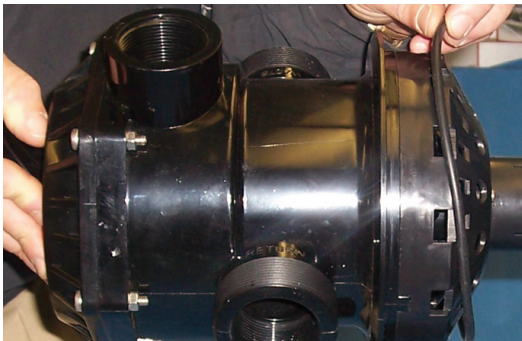
36" Tank .... 600 Lbs.



**NOTE** NEVER FILL SAND TANK MORE THAN 1/2 TO 3/4 OF THE WAY.

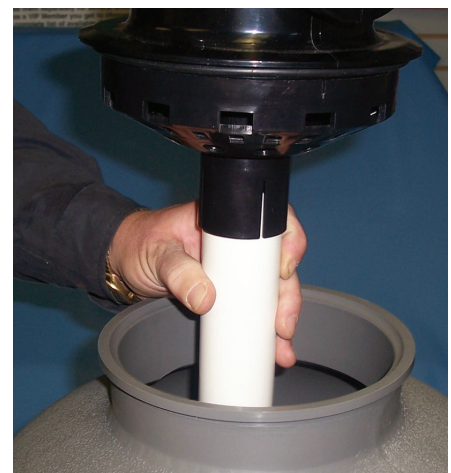
- Remove plastic bag and fill tank with water until the tank is filled right below opening of standpipe.

## STEP 4



- Locate o-ring on bottom of 6-way valve.
- Lubricate with o-ring lube to ensure proper seal on tank.
- Push o-ring against the lip of the valve. It **MUST** sit flat against the lip to protect from leaking at the valve.

- Clean off any sand or debris on top lip of filter and position valve over the opening of the standpipe.
- Valve will slide **ONTO** standpipe when positioned properly in tank (as shown). Push down firmly to make sure valve slides on all the way.



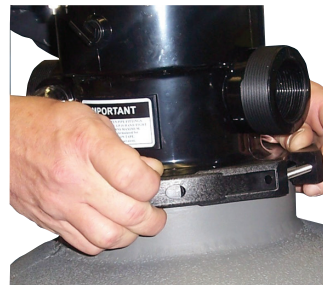
**NOTE** You CANNOT pull standpipe up to secure the valve. Pulling up can damage the laterals and cause sand to get sent back with water flow to pool.

## STEP 5



- Once valve is in place, hold clamp as shown and position clamp around lip of filter and over edge of valve.

- The clamp should sit flat around the lip of the tank and valve. If it is not sitting flat the clamp will leak.



- **Make sure that the screws of the clamp are lined up with the seams of the tank.** Tighten two screws on clamp a little at a time. Alternating from side to side so that both sides are tighten equally. Failure to follow these instructions will result in a leak at the clamp.

- Cover threads of pressure gauge with Teflon tape and thread into the open hole on the valve and hand tighten only.



## STEP 6

- The valve ports are labeled “**RETURN**”, “**PUMP**” and “**WASTE**” with raised letters next to the openings.
- Cover the threads of each straight fitting with Teflon tape and thread one fitting into each of the 1-1/2” threaded openings on the valve.
- Attach one 6’ hose to the bottom of the thru-wall skimmer and to the front of the pump with (2) hose clamps.
- Clamp one end of 3’ hose to the top of the pump and the other end to the threaded fitting on the “**PUMP**” port of the valve.
- Attach second 6’ hose to the fitting on the “**RETURN**” port and secure the opposite end to the fitting on the pool’s return with clamp.
- “**WASTE**” port will accept a standard fitting and a backwash hose (**sold separately**) which will be used during maintenance.
- Check drain plug at bottom of filter to ensure that it is screwed on tight.





# OPERATING YOUR FILTER

**NOTE** Your filter cannot be run if the water is not at the proper level in the pool. Running the filter without water can cause serious damage to your pump and filter.

- Prime filter prior to starting up filter system. **DO NOT** turn motor on until system has been primed, you can damage your pump
  - Make sure water in pool is up to middle of skimmer(s) and that there is nothing blocking water flow from return(s) and skimmer(s) (i.e. plug, plate)
  - Push down selector handle on valve and turn to notch labeled **BACKWASH**. Let go of handle and the valve is now in backwash position. Make sure backwash hose (sold separately) is attached to the waste port so water will not spray all over you once pump is started.
  - Remove lid of strainer basket on pump (if applicable) and fill with water. Skimmer and return lines should be filled with water as well (when water level is in proper place in pool this will happen naturally)
  - Place cover back on basket and plug in/switch on pump. When pump starts up, water will come out through the backwash hose. If the pump is properly primed, the water in the strainer basket will fill completely and air pocket will be eliminated
  - Repeat above until all air is purged from the system then turn off the pump. If this does not get air out of system, double check all connections to make sure they are properly tightened and try again
- To use filter, with pump **OFF**, push down selector handle on valve and turn to notch labeled **FILTER**
  - Connect pump to power to start filter operation
  - Note pressure gauge reading at this time
- When pressure through return fades and pressure gauge reads 5 psi above starting pressure, you will need to backwash the filter system to remove debris
  - Turn pump off before moving selector to **BACKWASH** position. Once in backwash, turn pump back on
  - Water will come out through the waste port, so position backwash hose where you would like water to run out
  - **NEVER** backwash for longer than **ONE MINUTE** at a time! Backwashing longer than one minute will cause sandblasting of internal components and can lead to damage of standpipe and/or laterals and **VOIDS WARRANTY**
  - Turn pump off and move selector to **RINSE** position. Rinse will allow water to flow through to clear out the lines and prevent a puff of sand or debris back into the pool after backwashing
  - Rinse for approximately 15 seconds and turn off pump again. Move selector back to filter and turn pump back on. You are now filtering water.
- The **WASTE** position does not allow water to pass through the filter
  - If there is a point where you would like to take water directly out of the pool, this is the option available to do so
  - You may also vacuum on waste to take large amounts of debris straight out of the pool if/when necessary
  - Remember, this is taking water out of the pool so watch the water level to protect your pump and filter. If water drops below skimmer level you **MUST** turn pump off
- **RECIRCULATE** allows you to move water in the pool **WITHOUT** filtering the water. This is usually used when adding chemicals to the pool, during pool opening or regular maintenance



**NOTE** NEVER move selector handle while pump is on. Pump **MUST** be switched off to change the position of the valve. Failure to comply will cause damage to your valve and is not covered by **WARRANTY**.

## TROUBLESHOOTING

LOW WATER FLOW	SHORT FILTER CYCLES	POOL WATER WON'T CLEAR UP
<ol style="list-style-type: none"> <li>1. Check skimmer and pump strainer baskets for debris.</li> <li>2. Check for restrictions in intake and discharge lines.</li> <li>3. Check for air leak in intake line (indicated by bubbles returning to pool).</li> <li>4. Backwash filter.</li> <li>5. Bring sand level in filter down to 1/2 full.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for algae in pool and superchlorinate as required.</li> <li>2. Be sure chlorine and pH levels are in proper range. Adjust as required.</li> <li>3. Check surface of filter sand for crusting or caking. Remove 1" of sand if necessary.</li> <li>4. Check hair and lint basket on pump for possible air leak, lubricate basket lid O-Ring as necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check chlorine, pH and total alkalinity levels and adjust as required.</li> <li>2. Be sure flow rate through filter is sufficient.</li> <li>3. Operate filter for longer periods.</li> <li>4. Be sure valve is set on "Filter" position.</li> <li>5. Be sure sand is between 1/2 and 3/4 full in tank.</li> </ol>

## WINTERIZING

**NOTE** Failure to winterize your filter properly may result in damage to the tank which is **NOT** covered under any warranty.

- At the end of the season once you disconnect filter system, remove the valve from the tank. Valve selector handle should be positioned **BETWEEN** any of the notches to allow for air ventilation through the valve to protect from cracking.
- Remove drain plug from bottom of sand tank to drain water out of the filter tank. Keep this plug off for the winter to allow any potential water build-up to escape from the tank.
- Empty **ALL** sand from the filter system and dispose of as it is recommended to replace sand **EACH** season.
- Rinse out inside of tank and air dry. You **MAY** remove laterals from standpipe and standpipe from tank.
- Store tank in an area where it will be protected from the elements and keep valve and tank stored **APART** to protect from condensation forming and causing cracks in the tank or valve.
- Run hose water through pump to rinse out and store in a warm, dry place for the winter.



**Blue Torrent** manufactures all of its products using cutting-edge technology with the best materials and workmanship available.

**Blue Torrent's PUMPS AND FILTERS** are warranted as follows:

## **1 YEAR LIMITED WARRANTY**

**Blue Torrent** warrants its Pumps and Filters to be free of defects in material and/or workmanship for a period of one year from the original date of purchase and/or installation.

### **WARRANTY CLAIM EXCLUSIONS:**

- Damage caused by improper installation as specified in owner's manual
- Damage caused by improper handling
- Damage due to misuse, abuse and/or failure to operate item per owner's manual
- Damage caused by improper water chemistry
- Damage caused by improper winterization of equipment
- Damage caused by not using original **Blue Torrent** replacement parts
- Damage caused by improper wiring or use of extension cords
- Accidental damage, fire, acts of God or other circumstances outside of **Blue Torrent's** control

#### **NOTE:**

- Customer must retain the original sales invoice as proof of purchase along with the installers invoice (to establish date of installation)
- Commercial facilities are not covered by warranty

Please return any and all defective items to your local authorized **Blue Torrent** dealer for inspection.

**The customer is responsible for all shipping charges to and from the nearest Factory Warranty Center. For more information. Please visit [www.btwarranty.com](http://www.btwarranty.com)**

Should a defect in material or workmanship appear the product will be repaired or replaced at our discretion. **Neither Blue Torrent nor any authorized dealer is responsible for any charges related to the installation of the new item or part.**

Nor are they responsible for any incidental charges incurred including, but not limited to, water, chemicals, landscaping or any other associated expenses.