PENTAIR

STA-RITE®

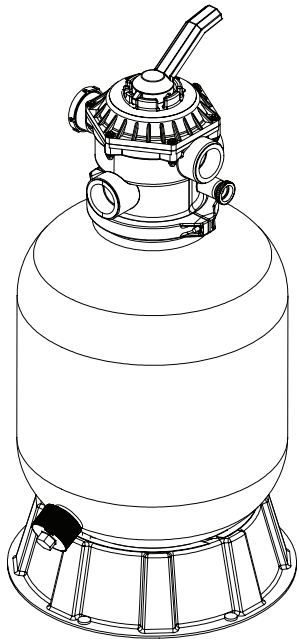
SAND DOLLAR® AND CRISTAL-FLO™ II

TOP MOUNT SAND FILTER

ENGLISH

FRANÇAIS

ESPAÑOL



INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

TECHNICAL SUPPORT

If you have questions about ordering Pentair Aquatic Systems replacement parts, and pool products, please contact:

Technical Support, USA

Sanford, North Carolina (8 A.M. to 4:30 P.M. ET)
Moorpark, California (8 A.M. to 4:30 P.M. PT)

Phone: (800) 831-7133
Fax: (800) 284-4151

Web site
Visit *www.pentairpool.com* or *www.staritepool.com* for information about Pentair products.

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P/N 152006 Rev. D 8/18/17

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

DANGER **SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS SAND FILTER IS NOT INSTALLED AND USED CORRECTLY.**

DANGER **INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS SAND FILTER.**

WARNING This sand filter is intended for use in swimming pool applications.

WARNING Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.



IMPORTANT NOTICE - Attention Installer: This Installation and User's Guide ("Guide") contains important information about the installation, operation and safe use of this sand filter. This Guide should be given to the owner and/or operator of this equipment.

WARNING Before installing this product, read and follow all warning notices and instructions in this Guide. Failure to follow warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions. Please refer to www.pentair.com for more information related to this product.

DANGER



Water temperature in excess of 100° F (37.7° C) may be hazardous to your health. Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6° F. (37° C.). 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. The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

WARNING Do not permit children to use or operate this sand filter.

WARNING When setting up pool water turnovers or flow rates the operator must consider local codes governing turnover as well as disinfectant feed ratios.

WARNING DO NOT increase pump size; this will increase the flow rate through the system and may exceed the maximum flow rate stated on the drain cover.

WARNING For filters intended for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 m) away, adjacent to, and within sight of, the filter.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

⚠DANGER



High Pressure from the Sand Filter can cause severe injury or major property damage due to tank separation.

Release all pressure and read instructions before working on the sand filter.

If the filter clamp is adjusted under pressure, the tank can separate, causing serious injury or major property damage.

⚠WARNING

BEFORE WORKING ON FILTER!
(1) Stop pump.
(2) Open air release valve.
(3) Release all pressure from system.

⚠DANGER



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION:
PUMPS REQUIRE HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH.
BEFORE WORKING ON PUMP!
Always disconnect power to the pool pump at the circuit breaker from the pump before servicing the pump. Failure to do so could result in death or serious injury to service person, pool users or others due to electric shock.

⚠WARNING A pool or spa pump must be installed by a qualified pool and spa service professional in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation may create an electrical hazard which could result in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property.

⚠WARNING Pumps are not a substitute for properly installed and secured pool drain covers. An ANSI/ASME A112.19.8 approved anti-entrapment drain cover must be used for each drain. Pools and spas should utilize a minimum of two drains per pump. If a drain cover becomes loose, broken or is missing, close the pool or spa immediately and shut off the pump until an approved anti-entrapment drain cover is properly installed with the manufacturer's supplied screws.

For information about the Virginia Graeme Baker Pool and Spa Safety Act, contact the Consumer Product Safety Commission at (301) 504-7908 or visit www.cpsc.gov.

<u>Important Note:</u> Always turn off all power to the pool pump before installing the cover or working on any suction outlet.

FILTER OVERVIEW

Your high rate sand filter is designed to produce clear, sparkling water and operate for years with a minimum of maintenance when installed, operated and maintained in accordance with these instructions. Your filter uses special filter sand to remove dirt particles from the water. Dirt is collected in the filter by the sand bed as water flows through the filter. Water enters the filter through the valve on top of the filter and is distributed evenly downward across the sand bed. The dirt is removed by the sand and the clean water flows through the piping (laterals) at the bottom of the filter, up through the stand pipe, back to the valve on top of the filter, where the clean water is returned to the pool through the piping or hoses.

⚠WARNING This filter operates under high pressure. When any part of the circulating system (e.g., clamp, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the lid or control valve to separate which may result in serious injury, death, or property damage. To avoid this potential hazard, follow these instructions.

1. Before repositioning valves and before beginning the assembly, disassembly, or adjustment of the clamp or any other service of the circulating system:
   (a) Turn the pump off and shut off any automatic controls to ensure the system is not inadvertently started during the servicing;
   (b) Open manual air relief valve;
   (c) Wait until all pressure is relieved, pressure gauge must read zero (0).
2. Whenever installing the filter clamp, follow the filter valve and clamp installation instructions exactly.
3. Once service on the circulating system is complete, follow system restart instructions exactly.
4. Maintain circulation system properly. Replace worn or damaged parts immediately (e.g., clamp, pressure gauge, relief valve, o-rings, etc.).
5. Be sure that the filter is properly mounted and positioned according to instructions provided.

After a period of time, dirt will accumulate in the filter causing a resistance to the flow of water through the filter. This resistance results in a diminished flow of water and a rise in the pressure of the filter. Eventually the filter sand will have removed so much dirt and the filter pressure risen to such a point that it will be necessary to clean (backwash) your filter.

By setting the valve on top of the filter to the “Backwash” position, the flow of water is automatically reversed through the filter so that the flow of water is directed to the bottom of the filter, up through the sand bed, flushing the dirt and debris out through the waste line. Once the backwash procedure is complete, the valve is manually returned to its “Filter” position to resume normal filtration. The filter’s function is to remove suspended matter from the water. It does not sanitize the water. For sparkling clear water, the water must be sanitized as well as balanced. Pool chemistry is a specialized area, and you should consult your local pool service specialist for specific details. In general, proper pool sanitation requires a free chlorine level of 1 to 2 PPM and a pH range of 7.2 to 7.6. Your filtration system should be designed to meet your local health codes. As a minimum, you must be sure that your system will turnover the total volume of water in your pool at least twice in a twenty-four hour period.

⚠WARNING Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in your pool. Poor water clarity may obscure objects in the water which while swimming and diving could cause serious personal injury or death. Never swim in a pool with poor water clarity.

INSTALLATION

1. **Read and understand all instructions before attempting to install, operate or maintain your pump and sand filter system.**
2. Provide space and lighting for routine maintenance access. Locate the system close to the pool. Install electrical controls (e.g., on/off switches, timers, control systems, etc.) at least five (5) feet from the filter. This will allow you enough room to stand clear of the filter during system start up.
3. Remove all individual components from carton and inspect for any visible damage. If carton or parts are damaged contact seller or freight company.

⚠WARNING Blockage of suction fittings can cause serious or fatal injury due to drowning. To reduce the risk of injury, do not permit children to use this product.

⚠WARNING Never work on the pump while it is running or power is still connected. High voltage can cause serious or fatal injury. A suitable ground fault interrupter (GFCI) should always be installed at the power supply source of this unit. Be sure to ground the motor before connecting to electrical AC power supply. Failure to ground the motor can cause serious or fatal electrical shock hazard. DO NOT ground to a gas supply pipe line.

4. The filter is ready to be moved into its final position. The system must be placed on level solid earth. When the filter is filled with sand and water it can weigh several hundred pounds.
5. Be certain to install the precise amount of filter sand listed on your filter name plate. You must use only No. 20 standard silica sand having a uniformity coefficient of 1.75 or less. No. 20 silica sand has a particle size of .018-.022 inches (.45 to .55 mm). Before pouring the sand into the filter, look inside and check the lower under drain for broken or loose laterals (or fingers), which may have been accidentally damaged by rough handling during shipment. Replace any broken parts if necessary.
6. Install the sand guide in the top of the filter and fill the tank about half full of water. Pour the sand into the top of the filter at a slow rate so that the weight of the sand does not damage the laterals. After the required amount of sand has been installed, remove and discard the sand guide. Wash away all sand around the opening at the top of the tank.
7. Be sure top of filter is free of any sand or debris and valve o-ring is in place on valve body. Install valve so that the port locations are in the desired final position. Valve ports are labeled with the location of where they should be connected i.e. pump port must go to pump discharge, waste port must go to the waste line and return port must go to the pool return.
8. Ensure that the valve is firmly pushed into the top of the tank and that the flange of the tank and the flange of the valve are contacting each other. See **Figure 1**.

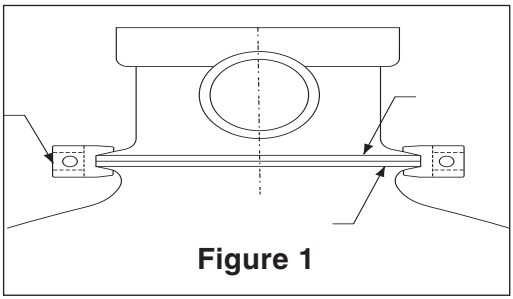


Figure 1

9. The plastic clamp can now be installed. Place the clamp half over the valve flange and the tank flange as shown in **Figure 1**. Insert the clamp screws and nuts into the clamp making sure that the nuts are located in the special hexagonal retainer slots on the clamps. See **Figure 2**.

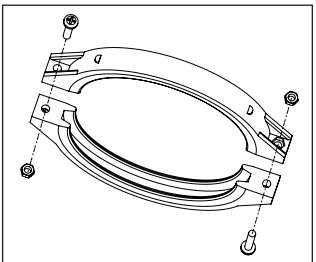


Figure 2

10. Tighten clamp screws firmly and visually check the valve tank and clamp assembly to insure that the joint is correctly assembled.

⚠WARNING



High Pressure:
Improper tank valve assembly could cause the valve to separate and cause serious injury and/or major property damage.

11. The filter unit has a maximum operating pressure listed on the filter name plate. DO NOT OPERATE this unit above the maximum operating pressure of the valve or the filter. Never connect the filter and valve unit to a pump which can generate a pressure that exceeds the operating pressure of the filter or valve.
12. Use sealant on all tapered male connections of pipes and fittings. Use only sealant compounds suited for plastic pipe. Support pipe to prevent strains on filter, pump or valve. DO NOT USE PETROLEUM BASED PRODUCTS. NOTICE: All valve internal threads are tapered except the air bleeder connection. Do not over tighten tapered thread connections.
13. Install pressure gauge in 1/4”NPT port directly across from the pump port of the valve.
14. Never store pool chemicals within ten (10) feet of your pool filter, pump or valve. Pool chemicals should always be stored in a cool, dry, well ventilated area.

⚠WARNING Chemical fumes and/or spills can cause serious corrosion to the filter and pump structural components. Structurally weakened components can cause filter, pump or valve attachments to separate and could cause serious bodily injury or property damage.

⚠WARNING The system’s centrifugal pump operates with electrical voltage, and can generate both vacuum and pressure in the water system. When properly wired and plumbed, this pump will operate in a safe manner.

⚠WARNING High voltage can cause serious or fatal injury. Always install a suitable GFCI at the power source of this unit as an added safety precaution. Article 681-31 of the NEC requires that a GFCI be used if this pump is used with a storable pool.

15. Avoid over tightening the pipe threads when connecting fittings to the pump or valve. Proper procedure is to apply a pipe sealant to the thread and then install hand tight plus one turn. **DO NOT OVER TIGHTEN**.

OPERATION AND MAINTENANCE

Initial Start-Up

1. Be sure the correct amount of silica filter sand is in the tank and that all connections have been made and are secure.
2. Verify that the backwash is open so that water is free to flow from the pool and out the backwash line. Set the control valve to “Backwash” position.

⚠ DANGER

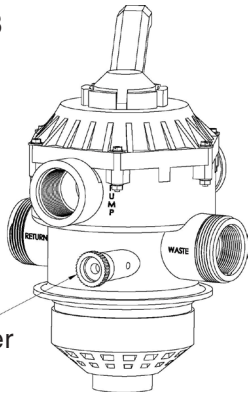


This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to separate, which could cause serious personal injury and/or property damage.

⚠ WARNING Always turn pump off before changing valve positions. Changing valve positions while the pump is running can damage the control valve, which may cause serious injury or property damage.

3. Check the valve clamp on the filter for proper installation. **For valve clamp installation instructions, see “Installation” on page 2.**
4. Open the manual air bleeder. (See **Figure 3** for air bleeder location). **STAND CLEAR OF THE FILTER**. Prime and start the pump according to the pump instructions allowing the filter tank to fill with water. Close the air bleeder on the filter when a steady stream of water emerges.

Figure 3



5. Once the water flow is steady out the waste line, run the pump for at least two minutes. This initial backwashing of the filter is recommended to remove any impurities of fine sand particles in the silica sand media.
6. Turn the pump off and set valve to “Rinse” position. Ensure that all pool suction and return lines are open so that the water is free to flow from the pool to waste. STAND CLEAR OF FILTER and start the pump.
7. Run the pump for at least two minutes.

8. Turn the pump off and set valve to “Filter” position. Be sure that all pool suction and return lines are open so that water is free to flow from and to the pool.
9. Open the manual air bleeder on the filter. **STAND CLEAR OF FILTER** and start the pump.
10. Close the air bleeder on the filter when a steady stream of water emerges.
11. The filter has now started its filtering cycle. Verify that water is returning to the pool and take note of the operating pressure. The original starting pressure is _____ psi with the filter clean.
12. Check the system for water leaks. If a leak is found, shut the pump off before correcting the leak.
13. As the filter removes dirt and impurities from the pool water, the accumulation will cause the filter pressure to rise and flow to diminish. When the pressure gauge reading is 10 psi higher than the clean filter reading noted above, it is time to backwash the filter.

General Maintenance

Proper care and maintenance of the pump and sand filter system will add many years of enjoyment to the pool. Follow these suggestions for long trouble free operation.

1. To clean the exterior of the pump and sand filter system of dust and dirt, wash with mild detergent and water and then hose off. Do not use solvents.
2. If internal filter maintenance is required, sand may be removed by removing the entire drain spigot from the bottom of the filter and flushing with a garden hose.
3. The filter is a pressure vessel and should never be serviced while under pressure. Always relieve tank pressure and open air bleeder on filter before attempting to service the filter.
4. When restarting the filter always open the manual air bleeder on the filter and STAND CLEAR OF FILTER.
5. The strainer basket in the pump should be inspected and cleaned twice each week. Remove the clear lid and the basket, and clean debris from basket. Inspect the lid o-ring; if damaged, replace. The pump seal requires no lubrication. The pump motor should only be serviced by a motor service center.

Cleaning

1. The filter on a new pool should be backwashed, and cleaned after the first 48 hours of operation to clean out construction debris. There are three different ways to identify when the filter needs backwashing:
    a) The most accurate indicator on pool systems with a flow meter is to backwash when the flow decreases 30% from original (clean filter) flow. For example, if the original flow was 60 GPM, the filter should be backwashed when the flow is reduced by about 20 GPM (or 30%) to 40 GPM.
    b) A more subjective and less accurate indicator is to observe the amount of water flowing from the flow directionals located in the wall of the pool. The filter should be backwashed once it is detected that the flow has been reduced.
    c) The most commonly used, but least accurate indicator is to backwash when the filter gauge reading increases 10 psi over the initial (clean filter) reading.
2. It is important not to backwash the filter solely on a timed basis such as every three (3) days. It is also important to note that backwashing too frequently actually causes poor filtration. Factors like weather conditions, heavy rains, dust or pollen, and water temperatures all affect the frequency of backwashing. As you use your pool, you will become aware of these influences.

Filter and Control Valve Functions

FILTER: From pump, through valve, downward through filter sand bed, up through center pipe to valve return port, and back to the pool for normal filter action and vacuuming pool through filter.
BACKWASH: From pump, through valve, down through center pipe, up through filter sand to valve, and out waste port. This position is used for cleaning filter by reversing flow.
RINSE: From pump, through valve, downward through filter sand, up through center pipe to valve and out waste port. This position is used for start up cleaning and resettling filter bed after backwashing.
WASTE: From pump, through valve, bypasses filter and goes to waste port. This position is for vacuuming directly to waste, lowering pool level, or draining pool.
CLOSED: NO FLOW IN THIS POSITION - DO NOT USE THIS SETTING WHILE PUMP IS OPERATING.
RECIRCULATE: From pump, through valve, bypasses filter and goes to return port and back to pool. This position is for circulating water without going through filter.
WINTERIZING: Valve position for a winterized filter, see page 10.

Filter Backwash Procedure

⚠WARNING Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in your pool. Poor water clarity may obscure objects in the water which while swimming and diving could cause serious injury or death. Never swim in a pool with poor water clarity.

⚠WARNING **To prevent equipment damage and possible injury, always turn pump off before changing valve position.**

1. Stop pump.
2. Ensure that the suction and backwash lines are open so that water is free to come from the pool and flow out the backwash line. Set control valve to “Backwash” position.
3. STAND CLEAR OF FILTER and start pump.
4. Backwash filter for approximately three (3) minutes or until backwash water is clean.
5. Stop pump and set valve to “Rinse” position.
6. STAND CLEAR OF FILTER and start pump..
7. Rinse filter for approximately 30 seconds.
8. Stop pump and set valve to “Filter” position.
9. Ensure the pool return line is open so that water may flow freely from the filter back to the pool.
10. Open manual air bleeder on filter. STAND CLEAR OF FILTER and start pump.
11. Close manual air bleeder on filter when a steady stream of water emerges from the bleeder.
12. The filter has now started its filtering cycle. Verify the water is returning to the pool and take note of the filter pressure.
13. The filter pressure in Step 12 above should not exceed the pressure originally observed on the filter when it was initially started. If after backwashing, the pressure is 4 to 6 psi above the start condition it will be necessary to chemically clean the sand bed.

Chemical Cleaning

1. It is recommended that a specialty filter cleaning solution be used. These cleaners will remove oils, scale and rust from the sand bed in one cleaning operation.
2. Mix the solution following the manufacturer's instructions on the label.
3. Backwash the filter with the valve as described above.
4. If the filter is below pool level, switch pump off and close the appropriate valves to prevent draining the pool.
5. Switch off pump, open filter drain and allow filter to empty. Place valve in "Backwash" position.
6. After the filter has drained, close the filter drain and remove the pump strainer pot lid.
7. Be sure the backwash lines are open.
8. Switch the pump on and slowly pour the cleaning solution into the pump strainer with the pump running. If filter is below pool, open shut off valve slightly to allow pump to run.
9. Continue adding solution until the sand bed is saturated with cleaning solution.
10. Switch off the pump and leave filter in "Backwash" position. Allow the filter to stand overnight (12 hours).
11. Replace the pump lid and follow backwash procedure as described above.
12. Do not allow cleaning solution to get into the pool.

Winterizing the System

⚠CAUTION **Allowing water to freeze in the system will damage the system and cause potential water damage/flooding and potential property damage.**

1. In areas that have freezing winter temperatures, the pool equipment must be winterized to protect it from damage.
2. Backwash the filter. Switch off the pump and set the control valve to the “Winterize” position.
3. Remove the drain port cap at the bottom of the filter.

   IMPORTANT NOTE: Remove drain port cap only for draining water from filter. Removing the entire fitting will allow sand to drain also. The filter will drain slowly. Leave the drain port cap off and store it during the time the system is shut down.

⚠CAUTION **The Multiport Valve should be left in the “Winterize” position during the shutdown season so that the rubber seal of the valve diverter has no pressure on it. Failure to do so can damage the valve diverter seal which can cause property damage from leaking water.**

4. Drain all appropriate system piping.
5. It is recommended that the pump and filter be covered with a tarpaulin or plastic sheet to inhibit deterioration from the weather. DO NOT wrap the pump motor with plastic.
6. In installations where the pump cannot be drained a 40% Propylene Glycol 60% water solution will protect to -50° F (-45.5° C)

   Note: Do not use anti-freeze solutions except Propylene Glycol; as other anti-freeze are highly toxic and will damage the pump.

Problem	Cause	Action
Pool water not sufficiently clean.	1. Pool chemistry not adequate to inhibit algae growth.	Maintain pool chemistry or consult service technician.
	2. Too frequent a backwash cycle.	Allow pressure to build to 10PSI above clean filter condition before backwashing.
	3. Improper amount or wrong sand size.	Check sand bed depth and sand size or consult pool service technician.
	4. Inadequate turnover rate.	Run system for longer time or consult dealer or pool service technician.
Higher filter pressure.	1. Insufficient backwashing.	Backwash until effluent runs clear.
	2. Sand bed plugging with mineral deposits.	Chemically clean filter.
	3. Partially closed valve or restriction.	Open valve or remove obstruction in return line.
Short filter cycles.	1. Improper backwashing.	Backwash until effluent runs clear.
	2. Pool chemistry not adequate to inhabit algae growth.	Maintain pool chemistry or consult pool service technician.
	3. Plugged sand bed.	Manually remove top 1" surface of sand bed and chemically clean as required.
	4. Flow rate too high.	Restrict flow to capacity of filter.

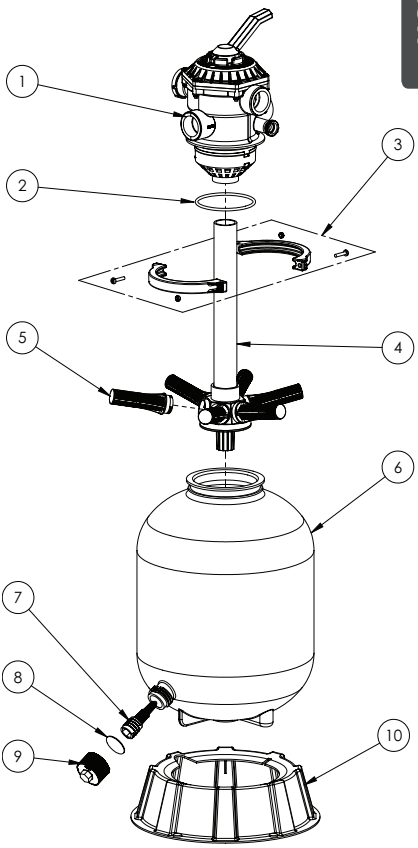
Troubleshooting (Cont.)

Return flow to pool diminished, low filter pressure.	1. Obstruction in the pump hair and lint pot. 2. Obstruction in pump. 3. Obstruction in suction line to pump.	Clean basket in strainer. Disassemble and clean pump. Clean skimmer basket. Remove obstruction in lines. Open valves in suction line.
Sand returning to pool.	1. Broken underdrain lateral. 2. Backwash rate too high.	Replace broken or damaged laterals. Reduce backwash flow rate.

ENGLISH

Filter Replacement Parts

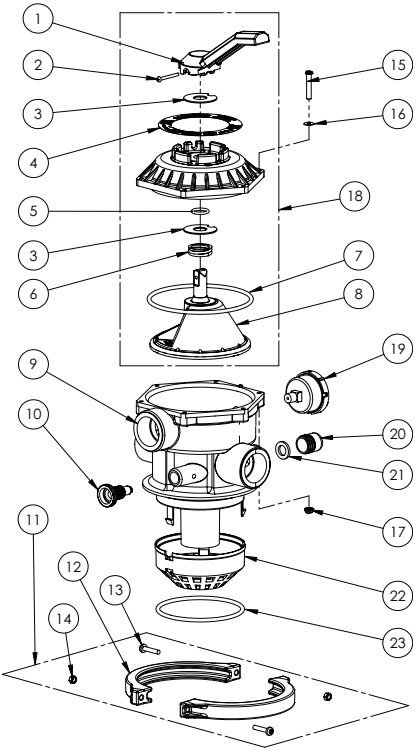
Item #	Description	Sand Dollar Part #	Cristal-Flo Part #
1	Valve, 1.5" (See page 14 for Valve Breakdown)	262506	
	Valve, 2" (See page 15 for valve breakdown)	263085	
2	O-Ring, Valve Body	272541	
3	Clamp Assembly	152165	
4	Piping Asy. - SD/CFII 35	152229	
	Piping Asy. - SD/CFII 40	152228	
	Piping Asy. - SD/CFII 60	152227	
	Piping Asy. - SD/CFII 70	152000	
	Piping Asy. - SD/CFII/ ClearPro 80	152226	
	Piping Asy. - SD/CFII 80 w/Hybrid 2" Valve	152238	
5	Lateral - SD/CFII 35, 40 (Qty. 6)	150084	
	Lateral - SD/CFII 60, 70, 80 (Qty. 6)	150085	
	Lateral - ClearPro (Qty. 6)	150088	
6	Tank Asy. - SD/CFII 35	145339	145364
	Tank Asy. - SD/CFII 40	145341	145365
	Tank Asy. - SD/CFII 60	145343	145366
	Tank Asy. - SD/CFII 70	145368	145369
	Tank Asy. - SD/CFII/ ClearPro 80	145334	145370
7	Sand Drain	154711	
8	Gasket, Sand Drain	154715	
9	Drain Cap	154712	
10	Foot - SD/CFII 35, 40	154926	
	Foot - SD/CFII 60, 70, 80	154520	
*	Pressure Gauge	190059	
*	Flex Hose Kit, 6'	155151	
*	Flex Hose Kit, 12'	155005	



(*) - Not Shown

1.5” Valve Replacement Parts

Item #	Part #	Description
1	272520	Handle
2	272405	Screw, Handle
3	272505	Washer, Plastic (2 Req.)
4	272599	Valve Position Label
5	272511	O-Ring, Diverter Shaft
6	272535	Spring, 100lb,1-3/8 O.D.
7	354053	O-Ring Top
8	272512	Diverter w/Gasket
9	272530	Valve Body & Diffuser
10	273512	Air Bleeder w/O-Ring
11	152165	Clamp Asy[1]
12	152166	Clamp Half (2 Req.)
13	152168	Clamp Screw (2 Req.)
14	152167	Clamp Nut (2 Req.)
15	354541	Screw #10-24 SS (6 req.)
16	272555	Washer 9/16 SS (6 req.)
17	272554	Nut Serrated SS (6 req.)
18	272531	Valve Top Assembly[2]
19	190059	Pressure Gauge
20	272550	Sight Glass
21	271106	Gasket, Sight Glass
22	272518	Diffuser
23	272541	Valve Body O-Ring
*	272517	Valve Manual



Note:

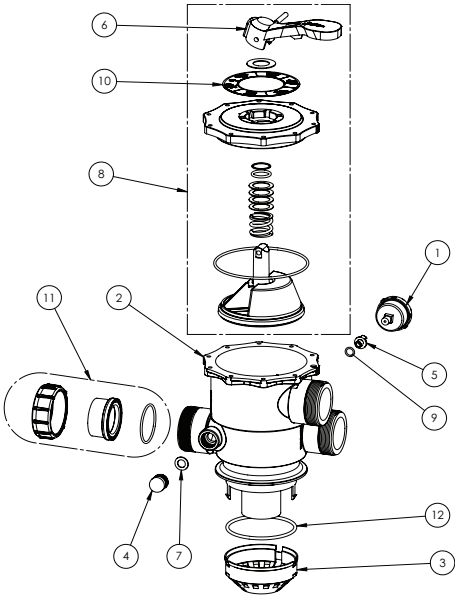
(*) Not Shown

([1]) Clamp Assembly consists of items 12 thru 14.

([2]) Valve Top Assembly consists of items 1 thru 8 and Valve Manual P/N 272517.

2” Valve Replacement Parts

Item #	Part #	Description
1	190059	Pressure Gauge
2	270210Z	Valve Body
3	272541	Diffuser
4	272556Z	Sight Glass
5	272557Z	Drain Plug
6	272558Z	Handle
7	272567Z	Gasket, Sight Glass
8	272568Z	Valve Top Assembly[1]
9	272573Z	Drain O-Ring
10	272576Z	Valve Position Label
11	272590Z	Union Kit
12	274402Z	Valve Body O-Ring



Note:

([1]) Valve Top Assembly consists of items 6 and 10.



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P/N 152006 REV. D 8/18/17