



Homeowners Manual

Thank you!

Thank you for purchasing a Blue Square Q360™ In-Floor Cleaning System! With over 20 years of pool building and in-floor knowledge, this system was designed with you, our pool customer in mind. This cost effective and efficient system is truly innovative with a very simple approach to installation and repair; making it easy for you to keep your pool clean and, should there be a problem to arise, easy to fix.

The Blue Square system is fully automatic and operates whenever the pool pump is running. The innovative system not only cleans your pool, it circulates heat and chemicals for maximum efficiency. To learn more about your new in-floor cleaning system, read on. Should you run into any problems, review the Pool Troubleshooting Guide and/or call us. Our trained customer service department is more than happy to trouble shoot with you to ensure your system is running effectively.

What is the Q360 High Efficiency Water Valve?

The Q360 Valve is a control valve that automatically distributes water to all areas of your pool and spa.

The valve automatically distributes water through a network of Q360 Floor Jets (you will hear them referred to as nozzles or heads) located through the floor of your pool. These jets return water from the pump and filter back into the pool.

Depending on the size and type of your pool, you will have one or more Q360 Valves. The Turbine Valve is a 6-port outlet, fed by a single inlet pipe from the side of the valve. The valve is water powered and non-electric. Water passing through the inlet-port turns a turbine, which drives the internal time and valve actuators. This patented design does not require electricity and runs automatically when the pool filtration pump is on.

What does the Q360 High Efficiency Water Valve do?

The valve makes it possible for your pump to address every surface of your pool with jets of water, which help keep the pool surface clean. The distribution of water keeps dirt suspended, not settling on the floor. This allows the pool's filtration system to collect and process dirt and debris, keeping your pool clean.

More important than just helping to cleaning your pool the Blue Square's Q360 technology distributes chemicals and heat more efficiently than surface return circulation. Traditional designs used an old fashion method of processing filtered water through the pool with wall inlets near the top of the pool. The surface water is the most vulnerable from wind and sun. This inefficient style of circulation cost pool owners up to 30% more in heating costs and as much as 15% more in chemical cost.

Blue Square's Q360 water valve distributes fresh, filtered and heated water to the surfaces of your where chemicals and fresh water can kill algae and bacteria before it establishes itself and begins to grow on the pool floor. The same powerful jets of water that clean your pool, efficiently distribute warm, purified water throughout the pool, making the Blue Square In-Floor Cleaning System an essential part of keeping your pool running efficiently.

Circulation Benefits

Independent studies have concluded that in-floor cleaning systems can save the pool owner as much as 20-30% on heating costs and 10-15% on chemical costs. The Q360 High Efficiency In-Floor Cleaning System magnifies those benefits by allowing more flow with less overall energy costs. No other system comes close.

Water Valve Instructions

The Complete Q360 VALVE
Shown on Figure 1

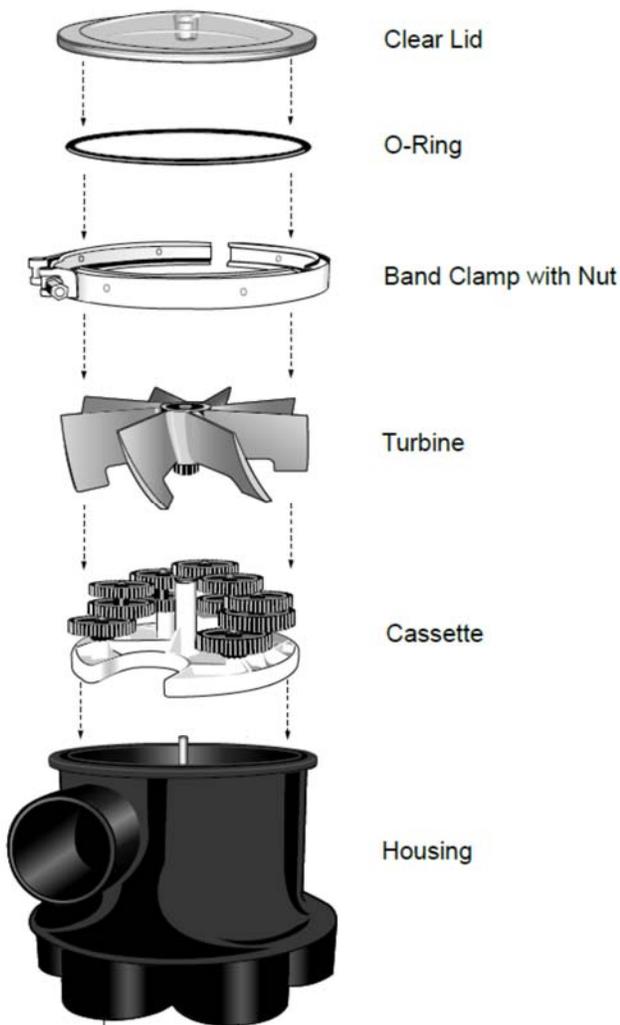


Figure 1

Servicing the Q360 Water Valve or replace the Cassette?

NOTE; if while the pump is on, the turbine spins and the valve is changing zones there is no technical reason to open the valve.

1. **Turn off the pump at the pool equipment.**
2. Loosen the bolt on band clamp and remove the band clamp and clear lid.
3. Remove the turbine and Cassette by sliding them off of the center shaft.
4. Install the cassette by sliding it onto the center shaft. Spin the gears and make sure the cassette drops all the way down and the lower gear engages with the gear train on the housing perimeter.
5. Place the turbine on the center shaft gear side down. Make sure the gear on the turbine engages the upper gear on the cassette. Spin the turbine several times and observe the white bottom plate is slowly turning. If it does not, the cassette is not in the full "down" position and the lower gear is above the gear train on the housing perimeter.
6. Check positioning of large O-ring on the clear lid and make sure it is free from debris and properly seated in the O-ring groove.
7. Align the center shaft on the guide pin hole in the clear lid and gently push the lid down. The lid should sit firmly and seat on the top of the valve housing with no wobble.
8. Replace the band clamp and tighten the bolt firmly. Do not over tighten.

Pool Troubleshooting Guide

The system is not cleaning the pool like it used to.

If the jets are popping up and water is shooting out of them in groups, but doesn't clean as far as they once did, there is a low water pressure issue.

- Service the filtration system, clean all baskets and clean or backwash the filter
- Make sure auxiliary valves, spa jets, waterfalls and manual surface returns are not open when the pool is in the cleaning mode
- If your pool is equipped with a variable speed pump make sure the pump is running at the appropriate RPM suggested by your pool builder

Dirt collects around one jet and/or jet stays in the upright position all the time.

When a jet stays up when water is not flowing through, debris is stuck in the jet. Try the following steps one by one until the problem is solved.

- Gently push the jet down with a pool pole, do not force it down
- Remove the jet with the removal tool and rinse the jet to remove any debris. (See Figure 2)
- Allow valve to cycle around and blow out the open line. Only remove one jet at a time to get maximum flow through the open pipe.
- Replace the jet and see if the problem is solved. If the previous steps do not solve the problem, call Blue Square Customer Service for warranty and non-warranty parts. 800.277.4150

Jet pops up but it does not rotate

- When the jet is up, try gently pushing it down with a pool pole. This may dislodge debris
- Remove the jet, rinse to remove debris and reinstall the jet
- Replace the jet if it is damaged. Call Blue Square Customer Service for warranty and non-warranty parts. 800.277.4150

Clean strip around one zone only

When one set of jets come on with the pump each day, but never rotates more than once a day, the water valve is not cycling.

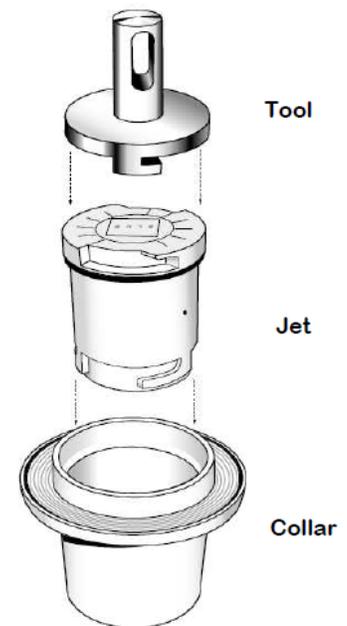
- Look through the clear lid while the pump is running. If the turbine is not spinning turn off the pool pump. Open the water valve, remove the turbine and cassette (as instructed above) and inspect the cassette and valve opening for debris. Rinse and remove any debris lodged in the gears.
- Replace the cassette and the turbine and make sure the gears engage the gear train on the perimeter of the inner valve housing. Spin the turbine several times and observe if the cassette plate is slowly turning.
- If spinning the turbine does not slowly turn the cassette plate then replace the cassette with a new one. Call Blue Square Customer Service for warranty and non-warranty parts. 800.277.4150

All jets are in the upright position when the pump is on.

When the pump is running all the jets are partially up constantly.

- Cassette or Turbine may be missing. Install the missing parts.

Figure 2



Tool

Jet

Collar

FAQ's

Frequently Asked Questions

How does the Q360™ In-Floor Cleaning System remove debris from the pool?

Strategically placed cleaning jets sweep across the pool surface causing dirt and debris to be suspended so it is removed through the skimmer and drain as the water is circulated by the filtration system.

How does the cleaning jet zones sequence?

A patent pending turbine-driven water valve controls the Q360™'s cleaning and circulation system. Water flows through the valve and out to the strategically placed cleaning jets in the pool. The zones switch automatically in a set sequence with no electrical hookup.

Do the cleaning jets need to be set in a specific sequence?

The cleaning jets themselves do not need to be manually sequenced, as they will not stay in sequence for long. The jets are plumbed so that they cycle in a set sequence to suspend debris. Testing has found that the sequencing is generally not that important as long as the rest of the system is working properly with adequate flows.

How do the cleaning jets rotate?

The super-efficient Q360 jets are designed to index to a new preprogramed position each time the nozzle gets adequate flow. Other systems rely on an offset nozzle and a random sequence that cannot ensure all areas of the pool are systematically addressed with a jet stream of water.

How do I determine if a sticking cleaning jet is a cleaning jet problem or a valve problem?

Other systems frequently have this problem. The Q360 valve, as long as you can see the turbine spinning, cannot cause one set of jets to remain up. To double check you can turn off the pump. If the cleaning jet retracts it is a valve problem - if the cleaning jet remains in the up position it is a stuck cleaning jet.

If a cleaning jet seems to be working but the area around it is not cleaning, what is wrong?

There is probably a blockage in the cleaning jet. Simply remove the cleaning jet and clear the blockage.

What is the purpose of the O-ring on the nozzle?

The O-ring is another efficiency feature of the Q360 system. The O-ring prevents water from bypassing the nozzle and gives the Q360 jet a wider cleaning radius. It also creates tension and acts like a spring to keep the jet lock into the collar.

How do I get debris out of a cleaning jet collar so my cleaning jet nozzle will go in?

Before installing a cleaning jet nozzle into a collar that has been without a cleaning jet nozzle for a period of time, allow the system to blow through the line to eliminate any debris that may have fallen into the line. If heavier debris (such as rocks) has lodged in the body and won't clear, place the install tool over the hole to create turbulence in the jet riser. The surge of water should eliminate any debris in the pipes.

Why are there two drains in my pool?

Two points of suction are safer than one. Many municipalities are now requiring two drains for each pump even when it is also tied to a skimmer.

Do I need surface returns with my Q360™ In-Floor System?

Surface returns are proven to be highly inefficient and cause higher electrical, chemical and heat costs. The Q360™ System does not require the use of surface returns. The force of the cleaning jets mixes and turns over the surface water eliminating the need to direct water to the surface.

Why does my filter tank pressure fluctuate?

The pressure fluctuation is another feature of the Q360 system. As the water valve cycles, the pressure gently drops as the next port begins to open. This gentle transition efficiently redirect the water flow without any abrupt pressure changes. Other systems have sharp pressure changes that may shorten the life of your pool equipment. The Q360™ water valve always operates so that the system is pressure safe.

Why use a booster pump?

The Q360 system is so efficient that the need for a costly booster pump is unnecessary. The high cost of adding a booster pump is rough on your pocketbook initially and in monthly electrical costs. It is also not the best plan for our environment. However it may be needed for large pools when more than 1 valve is needed.

Why should the heater have an external bypass?

The Q360 system is the most efficient water actuated pool cleaning system to date. The external bypass makes sure your systems efficiency is not reduced by restrictions that often occur inside heaters. The external bypass also reduces maintenance cost by slowing the water flow across the heaters heat exchanger. The AquaCal Heat Pump is the only exception to the bypass that we know of to date.

Is there any guarantee on the components of the Q360™ System?

The Q360 System has a three year product warranty on parts and material. Keep in mind that our parts are so economically priced (about ½ of other systems) that long term maintenance is very low cost. An optional Limited Lifetime Warranty is available. Contact our customer service department at 800.277.4150 to see if your system qualifies.

Why doesn't the Q360™ System offer a 99% cleaning guarantee like other in-floor systems?

The fine print of these other systems cleaning guarantee seems misleading to us. Their calculations are based on the interior area of your swimming pool. The average swimming pool is frequently more than 800 square feet. This means their guarantee allows for as much as 8 square feet of dirt in your pool. The team at Blue Square thinks this is unreasonable and we prefer to aim for you total satisfaction.

Thank you again for purchasing a Blue Square Q360 In-Floor Cleaning System!

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