



Aquatic Access Inc.

Pool Lift Model IGRC



Installation Guide Instruction Manual

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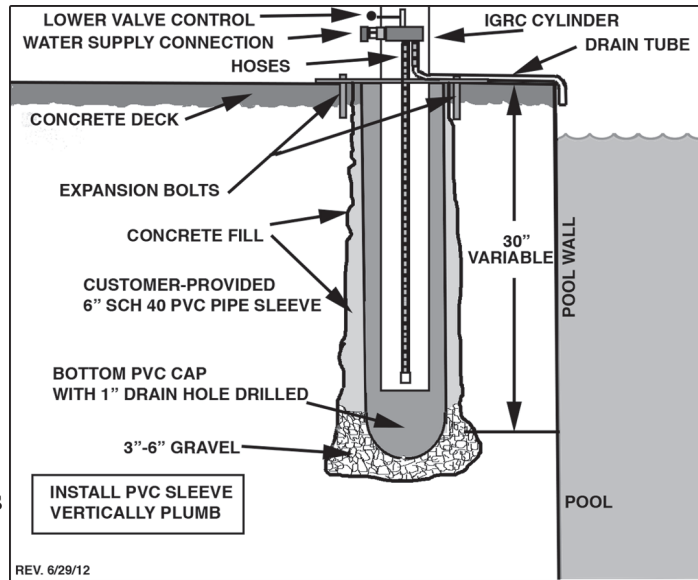
Pool Lift Model IGRC

The customer and installer are responsible for ensuring the strength of the mounting for the pool lift and for determining if grounding the unit is necessary. Installation directions must be followed to meet advertised lifting capacities.

INSTALLATION FOR CONCRETE DECKS

1. Place your lift in the location recommended by Aquatic Access and mark.

2. Bore an 8"- 10" diameter hole to depth specified by your Aquatic Access engineer. The center of the hole should be at a distance from the pool's edge as also specified by an Aquatic Access engineer. The customer provides a SCH 40 PVC pipe 6" diameter capped at bottom with a drain hole drilled through the cap. The exact length required will be provided by an Aquatic Access engineer. This pipe acts as a sleeve for the lift's recessed cylinder. Dig the hole 3" to 6" deeper than PVC



pipe's length. Fill the bottom of the hole with gravel so that the open end of the pipe is flush with the surface of the deck. Be certain the PVC sleeve is vertically plumb by using a bubble level. Finish the hole and the surrounding area smoothly because the base plate will mount on top of the opening. The concrete must cure for 24 hours before proceeding.

3. Use the base plate as a template for the location of the holes to be drilled.

4. Mark and drill 1/2" holes with a hammer drill for concrete deck mounting.

5. Hammer the expansion anchors into the concrete with a carpenter's hammer or light sledgehammer. Leave 3/4" of thread above the plate for 1/2" nut engagement. Tighten the 1/2" anchor bolts securely with 1/2" nuts. Anchor the base, remembering to keep the lift vertically plumb. Check with a level and shim if necessary. See illustration.

INSTALLATION FOR WOODEN DECKS

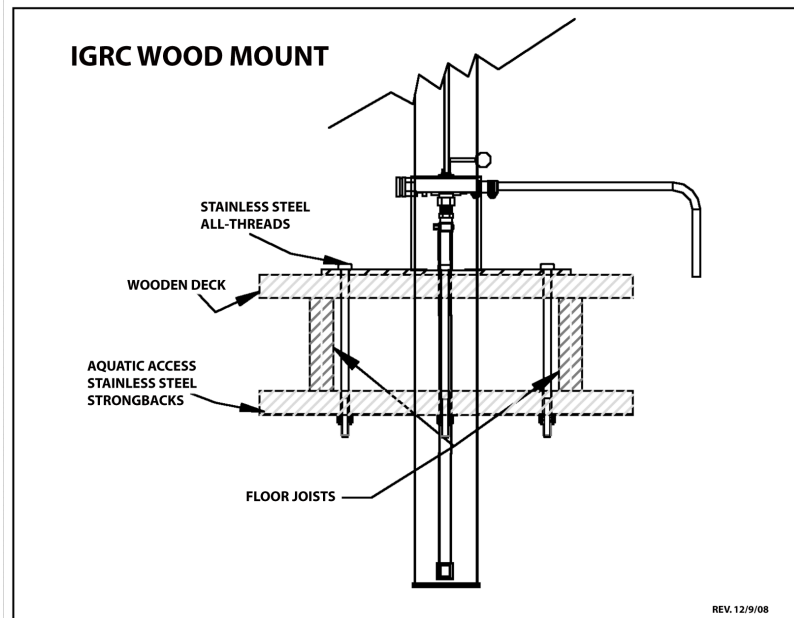
1. Place your lift in the location recommended by Aquatic Access and mark hole. Be sure this location is receiving maximum support from the floor joists. The IGRC base plate must rest on

two floor joists. Some applications may require identical joist-sized supports underneath each side of the plate.

2. Cut a 6" diameter hole between the floor joists. The center of the hole should be at a distance specified by Aquatic Access engineers in order to reach the desired area in the spa/pool properly.

3. Use the base plate as a template for the location of the holes to be drilled.

4. Mark and drill six 1/2" holes for a wood deck mount as shown where there is access below the deck. Use six 1/2" stainless steel all-threads going through the deck and two 1 1/2" x 2" stainless steel strong backs (available from Aquatic Access) installed underneath the deck, perpendicular to the floor joists. Some applications may require identical joist-sized supports underneath each side of the plate.



5. Anchor the base with 1/2" nuts & washers, remembering to keep the lift vertically plumb. Check with a level and shim if necessary.

IGRC ASSEMBLY

Your new Model IGRC lift has been assembled and tested for performance prior to shipping. Examine the illustration below and become familiar with the lift's parts and their names. A reinforced garden hose connection to the nearest water source is required for your lift to function. Installation of an adjacent water connection is desirable for new construction. To assemble:

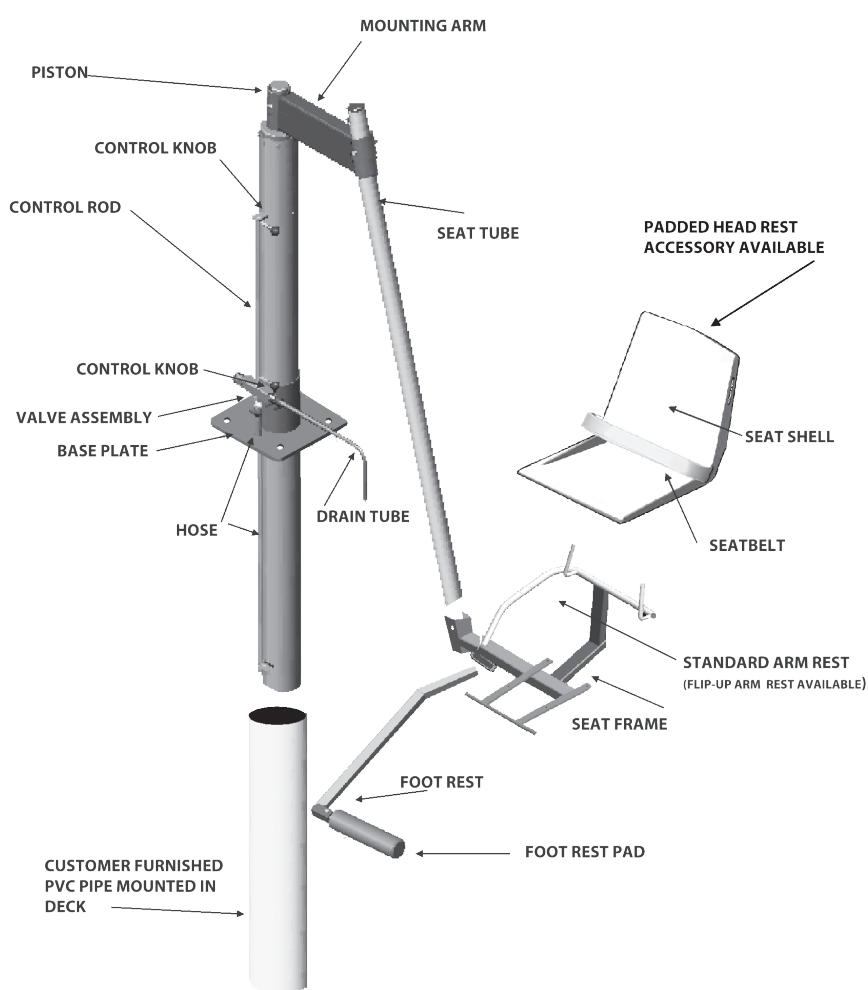
1. Install the main cylinder per instructions for installation in concrete or wooden deck.
2. Slide the connecting bracket over the piston rod on top of the lift with the tab pointing down. Insert the bolt and tighten the nut securely.
3. Insert the seat tube end with three holes into the angled end of the connecting bracket to the middle set of holes. Insert the bolt and tighten the nut securely.
4. Insert, position, and clamp the drain tube across the top of the pool wall with the discharge pointing down, allowing the water to drain into the pool. (Some states now require that the water

drain away from the pool instead of into the pool. Check local building codes to see if this requirement applies to your installation.)

5. Slide the seat assembly over the end of the seat tube, line up the holes and insert the bolt. Tighten the nut securely.

6. Connect the water hose to the valve and turn on the water supply.

DO NOT LEAVE THE PRESSURE ON CONSTANTLY. This may cause plastic components to swell.



IGRC Parts

WATER CONNECTIONS

The pool lift operates using normal household water pressure. If water pressure is excessively low, a booster pump may be needed.

If a pump is used, do not pump the water from the swimming pool. Chemicals contained in the pool water may damage parts inside the lift. Follow the pump manufacturer's instructions and local building codes when installing a 45+ PSI pump.

Pressures above 70 PSI (static water pressure) could damage lift components. If your static water pressure is over 70 PSI, a reducer valve installed between the hose bib and the hose is necessary.

No electricity is required to operate your Aquatic Access lift. In most situations a reinforced garden hose is adequate to operate the lift. Some customers prefer to run a dedicated line to the lift. If so, the connection should be placed on the same side of the lift as the water inlet and valve fittings. See illustrations.

OPERATION OF THE LIFT

1. Connect lift to water source.
2. Before allowing anyone to use the lift, purge air from the water lines by running the lift completely up and down several times. To raise the lift, turn the control rod clockwise. Turn the controls counter-clockwise to lower seat into the water. Placing the black knobs in the middle position will stop the seat's motion.
3. Once the air has been purged from the system, the lift is ready for use.

Note: Purge the air from the lift prior to each use. Air in the system may cause the seat to drop several inches suddenly. Make sure that the air has been purged from the system before allowing anyone to use the lift.

4. Raise the seat to the UP position. Be certain to align the holes for the pushpin.
5. Insert the pushpin through the piston rod and lower lift slightly. This will prevent the lift from accidentally rotating into the pool while a person is transferring into the lift's seat. (If there is no pushpin, there is a key located underneath the connecting bracket that fits into the top of the cylinder during transfer).
6. Once the person using the lift has transferred into the seat, fastened the seat belt, and is ready to enter the water, remove the pushpin. Turn the control rod to raise the person in the seat, and gently rotate the lift until the person is over the water, and then release the valve.

7. When ready to lift the person from the water, use the pushpin to hold the seat still until the person using the lift is comfortably seated on lift with seat belt fastened and is ready to get out of the pool. Then remove the pin and engage the water pressure by rotating the control rod, thus lifting the person from the water. Rotate seat over the deck and secure with pushpin before transferring from the lift seat.

GENERAL SAFETY PRECAUTIONS

ALWAYS purge the air from the system before operating the lift.
ALWAYS immobilize the lift with the pushpin lock when loading and unloading a person from the lift.
ALWAYS instruct facility personnel on use of the lift.
ALWAYS have an attendant present in case of emergency.
ALWAYS keep children and other persons off of the lift.
NEVER allow anyone to hang on or play on the lift.
NEVER allow anyone to dive or jump from the lift
NEVER use any sort of oil or petroleum-based product on the inside of the cylinder; it will damage the piston and seal.

SERVICE AND MAINTENANCE

ROUTINE INSPECTION

1. It is recommended that the unit be inspected every six months for damaged parts or excessive wear.
2. Check the screws, nuts, bolts, and hose clamps to be sure all are snug, and that none are corroded or rusted. Replace any parts that have corroded or show wear.
3. If the stainless steel has become discolored from chemical additives in the pool water or from a corrosive atmosphere, it can be cleaned using a soft Scotchbrite® pad. Never use steel wool pads to clean the lift. After cleaning with the pad, you can apply a good quality car wax to maintain its bright appearance.
4. If the lift is installed on a wood deck, check the deck for any signs of decay. Replace any worn or damaged decking.

DETERMINING THE CAUSE OF A WATER LEAK

Some sort of dirt or debris causes most leaks from the waterline getting into the cylinder and lodging between the seal and the cylinder wall. A very small particle can cause a significant leak. Often nothing is found since very small particles may not be noticeable at all. Thoroughly clean the parts, seals, and interior of the cylinder wall and reassemble the lift. Often the leak disappears after this simple procedure. Some leaks are caused by a seal developing a split, by hard water deposits on the seal or the inside cylinder wall, or simply by age or wear. Replacement seals are always available from Aquatic Access.

DISASSEMBLY OF LIFT

1. Turn off the water and disconnect the supply hose. Remove the bolt from the seat bracket. Slide the seat bracket off the end of the piston rod.
2. Remove the connecting bracket and seat tube from the top of the piston rod by removing the bolt and nut. Lift the connecting bracket and seat tube off the piston rod.
3. Mark the alignment notches on the top bushing with a pen in relation to the pool and to other components of the lift. This procedure will help with the reassembly the lift.
4. Remove the four bolts from the top of the cylinder. Grasp the end of the piston rod and lift the entire piston rod assembly out of the top of the cylinder. Remove the top guide with notches and the white plastic spacer tube from the piston rod. Some water may spill out of the cylinder as the top guide and seal are removed. Place this assembly and its parts on a clean surface only. Any dirt and debris that it picks up will adversely affect the lift's performance. Handle the piston rod carefully. Any scratches on its surface could cause a leak.
5. Inspect the inside of the cylinder to make sure it is clear of any dirt or debris. Formula 409® can be used to clean the inside of the cylinder and seal. Wrap a soft bath towel around a broom handle and push it through the unit, taking care not to scratch the inside of the cylinder wall. Rinse out the cylinder with clean water. Never use any oil or petroleum-based product inside the cylinder as it will damage the piston and seal.
6. To remove the seal, first remove the black o-ring from the bottom of the piston with your fingers. Then pull the seal off the piston.
7. Clean the seal with a damp cloth and lightly clean the edges with a Scotchbrite® pad. Do not use steel wool or other abrasives on this or any other component of your Aquatic Access lift. Inspect the seal for any tears or cuts by bending the seal to stretch the outside lip. If there is no damage, put the seal back on the piston, followed by the o-ring. It is easier to seat the seal when the inside surface of the cylinder is damp with either Formula 409® or water. If there is any damage, replace the seal with a new one. The seal should be soft and rubbery, not hard and stiff.

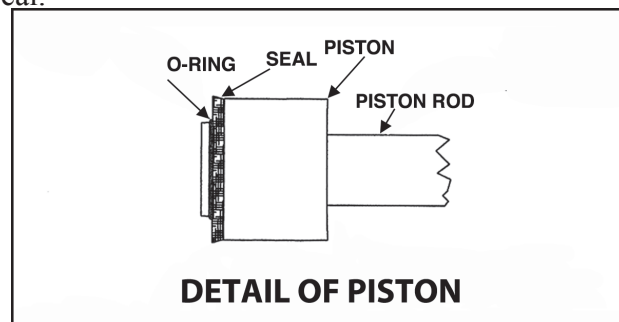
REPLACEMENT OF PISTON SEAL

1. Turn off the water and disconnect the supply hose. Remove the bolt from the connecting bracket.
2. Slide the connecting bracket and seat assembly off the end of the piston rod and set aside.
3. Mark the alignment notches on the top guide with a pen in relation to the pool and to other components of the lift. This procedure will help with the reassembly the lift.
4. Remove the four bolts from the top of the cylinder. Grasp the end of the piston rod and lift the entire piston rod assembly out of the top of the cylinder. Remove the top guide with notches and the white plastic spacer tube from the piston rod. Some water may spill out of the cylinder as the top guide and seal are removed. Place this assembly and its parts on a clean surface only. Any dirt and debris that it picks up will adversely affect the lift's performance. Handle the piston rod carefully. Any scratches on its surface could cause a leak.
5. Inspect the inside of the cylinder to make sure it is clear of any dirt or debris. Formula 409® can be used to clean the inside of the cylinder and seal. Wrap a soft bath towel around a broom handle and push it through the unit, taking care not to scratch the inside of the cylinder wall. Rinse out the cylinder with clean water. Do not use any oil or petroleum-based product inside the cylinder because it will damage the piston and seal.

6. To remove the seal, first remove the black o-ring from the bottom of the piston with your fingers. Then pull the seal off the piston.

7. Clean the seal with a damp cloth and lightly clean the edges with a Scotchbrite® pad. Do not use steel wool or other abrasives on this or any other component of your Aquatic Access lift.

Inspect the seal for any tears or cuts by bending the seal to stretch the outside lip. If there is no damage, put the seal back on the piston, followed by the o-ring. It is easier to seat the seal when the inside surface of the cylinder is damp with either Formula 409® or water. If there is any damage, replace the seal with a new one. The seal should be soft and rubbery, not hard and stiff.



REPLACEMENT OF THE PISTON AND/OR THE TOP GUIDE

Follow directions for Replacement of Piston Seal, steps 1-4.

Remove piston from end of piston rod using a block of wood placed against piston and then striking it with a rubber or plastic mallet. Go to step 5 of this section if you are only replacing the piston and not replacing the top guide.

Remove old top guide and replace with new top guide. Note that the threaded holes in the top guide are off center. The holes need to be positioned so that they are towards the bottom of the lift. Clean spacer if it is dirty. Install spacer on piston rod.

Install piston on end of piston rod using a rubber or plastic mallet. Hit bottom of piston until piston is firmly seated. Piston should be able to rotate freely after being attached.

REASSEMBLY OF LIFT

When replacing the plastic parts and seals on the piston rod, check to determine that all parts are completely clean and not damaged in any way. Be certain to install the parts in the correct order and direction.

1. Put the seal back on the piston by pressing it into the piston's channel, followed by pressing the o-ring into the piston's groove, which locks the seal to the piston.
2. Grasp the piston rod just above the piston and push the seal's lip into the cylinder by pressing lightly around the seal's edges. Be careful not to cut the seal on the cylinder's edge. Push the piston rod in until it rests on the bottom of the cylinder. . It is easier to seat the seal when the inside surface of the cylinder is damp with either Formula 409® or water. Never use any oil or petroleum-based product inside the cylinder as it will damage the piston and seal.
3. Slide the spacer tube over the piston rod and let it drop into the cylinder.
4. Slide the top guide onto the piston rod and locate the guide in its original position using the marks you have made.
5. Align the holes and screw the bolts into the plastic guide, taking care not to over tighten.
TOO MUCH TORQUE APPLIED TO THE BOLT MAY STRIP THE THREADS ON THE TOP GUIDE.
6. Slide the connecting bracket onto the piston rod. Align the holes and tighten the nut and bolt securely.
7. Attach seat assembly to connecting bracket. Align the holes and fasten the nut and bolt.

BEFORE USING THE LIFT AGAIN

Operate the lift to about one-fourth of its travel, and then lower completely. Repeat until a steady stream of water flows from the discharge hose, signaling that all air has been purged from the system. Air trapped in the cylinder will cause the motion of the seat's up and down travel to jerk and sometimes will cause a sudden drop of the last few inches in the seat's downward travel. Whenever you turn off the water supply, an air pocket will form inside the hose and you will need to bleed the air out of the system again after the water supply is turned on.

If you have any questions or concerns regarding your IGRC Pool Lift, Please call Aquatic Access Inc. at (800) 325-LIFT (5438).

Remember to send in your warranty card to Aquatic Access. If it becomes necessary to replace any part in your unit, we need to know its serial number and date of purchase. Take a moment to note this information below should you ever need to call.

Aquatic Access Model IGRC Serial Number _____

Date of Purchase _____ **Purchased From** _____

Notes:

TROUBLESHOOTING

SYMPTOM	CAUSE	REMEDY
Seat bounces on descent	Air in the cylinder	Purge air out by running the lift up and down two or three times. See operating label.
Air in Cylinder Every Day	Air entering hose or cylinder if seat is left in the up position and the water is shut off.	Purge air out by running the lift up and down two or three times. See operating label.
Lift rises slower than normal	Low Water Pressure (Heavier than usual swimmer on lift, defective hose, or dirt in valve) Lift kept under pressure.	None. Fluctuations in city water pressure are normal. (Replace defective part or clean valve) Turn off water each night.
Waters squirts from top of cylinder	Large amounts of water are getting past the seal.	Often this corrects itself. If not, then clean or replace the seal.
White, gray or brown chalky deposit.	High pH, High total alkalinity, high calcium content (hard) water	Clean unit with soft cloth or Scotchbrite® pad; apply car wax to protect finish.
Corrosion of Metal Parts	Low pH, Low total alkalinity, low calcium content (soft) water.	Clean unit with soft cloth or Scotchbrite® pad; apply car wax to protect finish
Water leakage from top of valve	Seal around valve stem defective	Replace defective part.
Electrolysis	Improper grounding of unit	Add a ground to unit.
Chair doesn't come up all the way	Deposits or dirt in valve, malfunction of valve; insufficient water pressure.	Clean or replace valve.

SERIAL NUMBER

MODEL NUMBER

WEIGHT CAPACITY

This illustration is of a generic Aquatic Access label and is here only to provide location of pertinent numbers found on every Aquatic Access label.

Please refer to the label attached to your lift for important information and instructions for your Aquatic Access lift.

You will find a label similar in style to this one on every Aquatic Access lift cylinder.

Please do not remove that label from your lift. You will need the serial number should you ever require replacement parts for your lift.

The label on the lift cylinder also contains instructions for use and safety procedures.

AQUATIC ACCESS

POOL LIFT MODEL

Serial #

US Patent Number

MAXIMUM WEIGHT CAPACITY

VARIABLE AT 55/65 PSI/ 3.8-4.5 BAR

WATER PRESSURE NOT TO EXCEED 70 PSI/4.8 BAR OR DAMAGE TO LIFT WILL RESULT. USE A REDUCER BETWEEN WATER SOURCE AND LIFT IF NECESSARY. BEFORE USE BY A SWIMMER

1. In seat-down position, mount lift into deck socket.
2. Turn control knob to down position.
3. Connect supply hose and turn on water.
4. With water supply, rotate Pool Lift control knob to move seat several strokes up and completely down. If the seat does not move in this motion, repeat this step until the seat is in the down position. The seat must be removed for safe operation.

INSTRUCTIONS FOR USE

1. Turn control knob to UP position, which will automatically turn the seat over down.
2. Insert seat into the pool. Do not allow the seat to prevent the seat from moving.
3. Seat the swimmer, if the seat is placed feet on footrest. Swimmer must be on footrest or injury may result.
4. Remove the seat from the pool. Turn the seat to lower the swimmer into the pool. Seat turns automatically to top of travel.
5. Reverse the seat to swimmer.

NOTE: Speed of the seat should be controlled by turning the control knob. Do not turn the seat up or down position. The pressure is very high. The seat may move too fast. Experiment to find the best settings for your water pressure.

When lift is to be used for 8 hours or longer, turn off water and seat. Do not leave seat in raised position and insert pool hose into the pool. Then turn off the water and turn the control knob to the DOWN position. When ready to use the lift again, turn on water and purge the hose. Consider a lift as specified above (#4 in Before Use by a Swimmer).

TO REMOVE LIFT

1. Remove the seat and lift it to the UP position.
2. Turn off the water and disconnect the supply hose.
3. Lift out the seat and place it on the deck.

DO NOT STORE LIFT IN BELOW-FREEZE TEMPERATURES.

IMPORTANT SAFETY WARNINGS

1. Never allow more than one person on the lift at a time.
2. Keep fingers, toes, and loose clothing away from moving parts.
3. Do not touch the hose or hoses at any time.
4. Do not allow people to climb on or around the lift.
5. Do not allow anyone to hang on or around the lift.
6. Do not use the lift.
7. Turn water supply OFF and disconnect hose with push pin when the lift is to be unused for eight hours or longer.
8. Always use the seat and do not use the lift through several cycles of turning the water supply on. This bleeds air out of the cylinder which could use unexpected movement.
9. Be certain the seat is tilted in the seat before operation.
10. Always use the seat feet on the footrest.
11. Never allow the seat to submerge beneath the water.
12. Do not use the lift during a storm or high wind.
13. Always use the lift cylinder before exposing lift to the water.
14. Never use the lift for a pump-based product or in the pool.

REV. 10/6/10

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AquaticAccess.com

Sample Label to Indicate Location of Numbers Only

Addendum: Technical Specifications of Model IGRC

LIFTING CAPACITY	300 lbs. @ 55- PSI / 136 KG @3.8-4.5 BAR
OPERATION	Standard city water pressure will generally provide plenty of pressure for normal operation. A pump can be used to raise pressure if required, but it is important to utilize the right type of pump. Do not use a high volume on demand pump. The correct pump would be three to five gallons (US) per minute at 40 PSI (2.8 BAR) to 70 PSI (4.8 BAR) maximum pressure.
ROTATION	Manual 360 Degree Turn
MATERIALS	304 & 316L Stainless, UHMW plastic, Brass and Neoprene Seal, Polystyrene Seat Shell
OVERALL SIZE	HEIGHT: variable BASE WIDTH variable BASE LENGTH variable
RANGE OF MOTION	Provides 42" (1067 mm) +/- vertical travel.
PORTABILITY	Lift can be transported away and stored out of sight by removing a series of bolts.
WARRANTY	The IGRC pool lift offers a 6 year Limited Warranty on all structural components and a 2 year Limited Warranty on the valve and all plastic and rubber components.

Rev. 9/17/13