

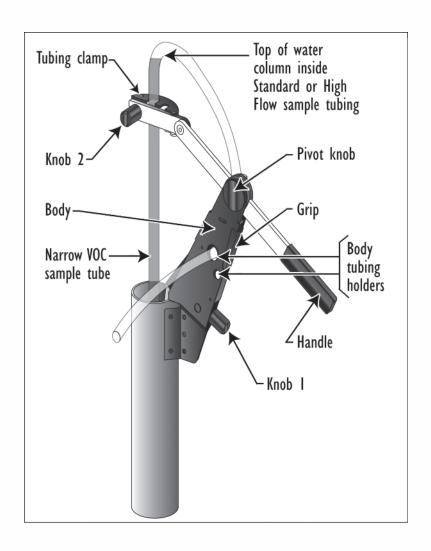
#### **Features:**

The Waterra Lever Pump was designed to provide operators with a convenient, portable mechanism which would provide some mechanical advantage when manually operating the Waterra Inertial Pump, as well as facilitating the collection of samples with this system.

This actuator will fasten onto most above ground well completions quickly and easily. The tubing clamp is designed to accept Standard Flow, High Flow and Low Flow tubing and the handle is adjustable in order to accommodate various casing diameters and desired stroke lengths. The Lever Pump weighs approximately 8 lbs (3.6 kg).



- FULLY ADJUSTABLE
- HINGED TUBING CLAMP
- SUITABLE FOR USE WITH STANDARD FLOW, HIGH FLOW
  LOW FLOW INERTIAL PUMPS
- ADAPTS TO ALMOST ANY SIZE CASING OR PROTECTIVE WELL CASING
- ONE HANDED OPERATION
- REDUCES FATIGUE WHEN PURGING LARGE VOLUMES FROM WELLS



# WATERRA WLP-100 LEVER PUMP



I Attach the foot valve to the plastic tubing by threading the foot valve clockwise (right hand thread) on the tubing as far as possible. The threads on the foot valve will self-tap into the tubing to provide a strong, water tight connection. Test the connection by pulling vigorously on the foot valve.

2 Lower the foot valve and tubing to the desired depth (usually just above the bottom of the well) and cut the tube with approximately 4 feet extending above the well casing.

Do not cut the tubing flush with the top of the casing in case there is an accumulation of silt at the bottom of the well. The Inertial Pump will remove this material and effectively make the total depth of the well greater if this is the case.

For dedicated installations, the tubing can be cut flush to permit capping of the well when not in use.



3 Fasten the WLP-100 Lever Pump on the top edge of the well casing or surface protective casing.



4 Tighten the **Knob I** located at the base of the body. (see diagram)



5 Fit the tubing in the appropriate cutout in the **Tubing Clamp** with 4 to 5 feet of tubing protruding above the clamp.

Close and tighten the tubing clamp with the **Knob 2**, located at the tubing clamp.



6 Squeeze **the Grip** to line up the holes in the Grip with the holes in the **Body**.

Bend the extra 4 top 5 feet of tubing above the tubing clamp around and fit it through the **Body Tubing Holder**.

Release the Grip. The discharge end of the tubing will then be held in place.

# WARRANTY INFORMATION



7 Align the tubing in the casing by using the **Pivot Knob** to adjust the position of the **Handle**.

This avoids excessive rubbing and positions it for an effective stroke.

8 Pump water from the well by operating the **Handle** at a rate of between 90 to 120 strokes per minute.

To maximize the pumping rate, rapid and abrupt up stroke (pushing down on the handle) should be used to impart greater upward momentum to the column of water.

#### **Please Note:**

The pump will lift water laden with silt and sand. However, after pumping is completed, the sediment in the column of water within the tube may settle out and clog the foot valve.

To prevent this, we recommend clearing the tube after use. This may be done by inverting the tube in the well.

To invert the tubing, pull up about 8 feet of tubing, looping it over and insert the open end back into the well. Push down the open end while simultaneously pulling up the other end.

## **Warranty Information**

Waterra Pumps Limited warrants that each new Lever Pump will be free, under normal use and maintenance, from any defects in material or workmanship for the relevant warranty period. Necessary repairs shall be made and replacement parts provided at no cost to the consumer when Waterra acknowledges that such defects are attributable to faulty material or workmanship at the time of manufacture. This warranty is not transferable.

# Warranty period

All components 6 months.

#### This warranty does not cover:

- i) any repairs required as a result of collision, accident, striking an object, abuse, misuse, lack of required maintenance or use of an incorrect power source;
- ii) any repairs required as a result of any attachments, parts or devices installed or repairs done by a party other than Waterra Pumps Limited;
- **iii) any Lever Pump modified,** altered, disassembled or remodeled; and
- **iv) normal maintenance service** such as tightening screws, bolts or fittings; and lubrication and/or replacement of parts that are susceptible to natural wear.

## **Owner's Obligation**

The owner agrees to follow all safety procedures outlined with this equipment and follow the maintenance schedule as indicated in the Owner's Manual. A record must be kept of regular inspections and maintenance performed.

# WATERRA WLP-100 LEVER PUMP CONTACT WATERRA

#### **Disclaimer**

To the extent that the law permits, Waterra Pumps Limited disclaims any responsibility for the loss of time or use of the Lever Pump, transportation or towing costs or any other indirect, incidental or consequential damage, inconvenience, commercial loss or personal injury. The warranty is not valid if the product is not paid for in full within 60 days of the invoice date.

# Returning the Lever Pump to Waterra

Waterra requires that all customers notify Waterra prior to returning their Lever Pump under the Waterra warranty program. The Lever Pump will only be accepted if it has been thoroughly cleaned and decontaminated. The Lever Pump must be properly packaged and all fuel must be removed from the pump prior to shipping. Please contact Waterra in order to obtain a shipping address.

#### Canada and International

Waterra Pumps Limited 5200 Dixie Road, Unit 44 Mississauga, ON L4W IE4 CANADA tel: 905.238.5242 fax: 905.238.5704

email: sales@waterra.com

**United States** 

Waterra U.S.A. Inc. 4252 Spring Creek Lane, Suite B Bellingham, Washington USA 98226 tel: 360.738.3366 fax: 360.738.3399 email: waterra@openaccess.org

