

### **Cistern Specifications & Operational Standards – Updated Jan. 1, 2015**

#### **Guidelines for hookup of curb-stop to cistern and emitter assembly**

1. To standardize all member hookups the LNCPWC requires that members use **3/4 inch diameter** Series 200 municipal pipe (Rated to 200 PSI) from the curb-stop to the cistern. **(Regular black water pipe will no longer be accepted, and our operator will not install your water)**

Extra 3/4" pipe must be coiled in the cistern to allow for installation and removal of the flow emitter assembly. Measure this by pulling 5 ft. extra out of the cistern neck. As a option the **LNCPWC recommends** using Blue Aqua G1331 flexible water pipe available at companies like Southern Drip. A 15 foot prepared pipe with 3/4 inch NPT adapter fittings should cost approximate \$75.00.

A minimum operating pressure of 20 PSI has been designed for at all curb stops. Remember there will be some pressure losses in your system but these are minor when compared to raises in elevation.

The math is simple – for every 2.31 feet in the of raise of a pipe the pressure drops 1 PSI. It is very important to consider this fact when determining where you are planning to install your cistern.

2. The Co-op will provide all members with the vertical mounting brackets and anchors, and will install the float & flow emitter once the **landowner has properly installed the vertical mounting bracket**. Please call ahead so the bracket can be dropped off ahead of time. After our operator has flushed your line and determined correct chlorine levels he will install the flow emitter assembly. This equipment will restrict flow to the number of units purchased and stop the flow to the cistern once the cistern is full.

**For assistance please contact the Martin at 403-380-6918**

The cost of the flow emitter assembly will be included in the final unit cost but is at no charge at time of pickup. (One flow emitter assembly per cistern).

3. The cistern must be frost free, to prevent damage to the flow control assembly. The member is responsible for repairs required to the line from the cistern to the curb-stop and should frost damage occur to any part of the flow control assembly in the cistern a min. \$75. service call charge and an invoice for replacement parts will result. Do Not try repair yourself, only LNCPWC approved parts installed by our operator will be acceptable. **( Insulate the top of your cistern )**
4. The Alberta Health Services guidelines do not allow Coop members to connect to the curb stop until the Co-op's lines have been flushed and chlorinated. Only the Co-op operator is authorized to do flushing and chlorine testing and when done will he complete the water connection.
5. The Co-op will not allow water to be taken between the curb-stop and the emitter (for example via: a cattle waterer, a hydrant, etc.). Any remedial work to correct wrong hook ups will be done at the member's expense. The installation of any control device or tee between the LNCPWC curb stop and the control assembly is considered as tapping and must be remove at the expense of the landowner.
6. As part of the arrangement between the Coop and it's members it must be understood that the LNCPWC operator must be allowed to inspect the emitter assembly in any members cistern. His job is to maintain a safe source of drinking water for you and your family. Part of his job is to rotate the curb stop valves, do end of line chlorine testing, complete locates and many other tasks. So, if you see our operator say hello.

**Picture of Aqua G13331 flexible pipe for cistern interior**



**The LNCPWC is showing examples of cisterns use by other customers and is not making a recommendation.**

**Nacon Plastic Interior cisterns**



**Nacon Plastic Exterior cisterns**

