

# UNDER NO CIRCUMSTANCES SHOULD MERRILL YARD HYDRANTS DRAIN BACK INTO WELL OR DRINKING WATER SUPPLY!

Merrill Mfg. disclaims all liability of any kind and voids the hydrant warranty for installations of this product where it can or could drain back into a drinking water supply.

## INSTALLATION INSTRUCTIONS

Installing, adjusting and maintaining MERRILL CNL-1000 Series Yard Hydrant.

### INSTALLATION:

1. First be sure water line on which hydrant is to be installed has been thoroughly flushed to wash out foreign particles. Merrill will not warrant or accept any responsibility if the water line is not flushed out prior to attachment of hydrant.
2. Be sure the hydrant is installed with provision for drainage below the frost line.
  - a. If hydrant is installed in a pit, the pit must have an open bottom or some form of drainage.
  - b. If hydrant is buried in the ground, a few tile can be laid in gravel or coarse material to form a field system for the drain.
  - c. If hydrant is buried in the ground and no tile are used, be sure to put a quantity of gravel, crushed rock or some coarse material, not sand, around the drain of the hydrant. This will permit faster and better drainage.
3. **IMPORTANT** - If hydrant is buried in the ground, it is a good idea to put a brick or large stone under the hydrant, because when the hydrant drains and this subsoil becomes wet, it will allow the hydrant to settle and thus put a strain on the pipe to which it is connected. A brick or stone would carry this weight.
4. To connect the hydrant to the water line, just turn it onto the male thread connection for which it is intended. Merrill has hydrant ells and tee fittings available for connection to flexible poly pipe.
  - a. **CAUTION** - When the hydrant is tightened, be careful that it is not tightened so tightly that the hydrant head or valve body will be screwed further onto the pipe and thus change the adjustment of the hydrant. If this should happen, refer to the adjustment section for the proper adjustment.
5. **IMPORTANT** - **Before backfilling the trench, turn on the water. Then turn on the hydrant by raising the handle to let the water flow. If the hydrant is not working properly, refer to Adjustment section. Merrill will not accept any responsibility for digging up the hydrant if installer fails to flush out the water line before attaching hydrant to water line AND to check hydrant for proper operation before backfilling the trench.**  
**WARNING: If the ground freezes at or below the bottom of this hydrant, your warranty is void and damage due to improper installation or act of nature is not covered by manufacturer.**

### ADJUSTMENT:

1. Adjusting the plunger in the lower valve body.
  - a. To lower the plunger assembly into the valve body, take the P-15 bolt out of the head casting and remove the handle and G-20 draw straps (note: draw straps are bent inward which applies pressure on the handle when opening the hydrant). With two wrenches loosen the two 9/16" nuts on each side of the G-25 pivot connector. To lower the plunger, turn the top nut upward, (only one thread), then tighten the lower nut upward toward the G-25 pivot connector (or raise the G-25), then tighten top nut.
  - b. To determine if the water is not draining out the stand pipe, turn the hydrant on and let the water flow. Then push down the handle to close the hydrant with a cup of water covering the nozzle. If the water in the cup siphons back through the hydrant, the plunger is in the correct position. If the water does not siphon out of the cup, then adjust the plunger in the same way as stated in (a). Then check to see if the water siphons out of the cup after adjustment.

### MAINTENANCE:

1. In maintenance, nothing is needed - But, a few drops of oil occasionally on the cam of the lever will prolong its life.
2. To replace any valve or plunger parts, **NO NEED DIGGING UP HYDRANT** - First turn off water pressure, then simply mark the threads on the pipe by putting a piece of electrical tape around the pipe just below the hydrant head and unscrew entire head casting from stand pipe and pull up stem and valve parts. Then thread head casting back to same mark on pipe after parts are replaced.

**For any questions CALL MERRILL 712-732-2760**