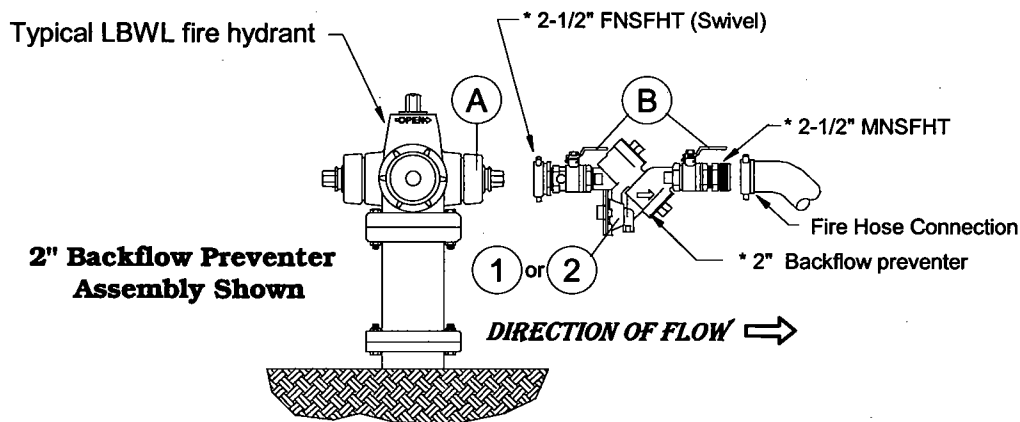


Water T&D Construction Standard

GENERAL APPLICATION FOR REDUCED PRESSURE ZONE BACKFLOW PREVENTER USED FOR BULK WATER SALES

APPLICATION: For bulk water sales from LBWL system fire hydrants.

In an effort to improve the availability of bulk water to Lansing Board of Water & Light (LBWL) customers, Reduced Pressure Zone (RPZ) backflow preventer assemblies are for sale to industrial / commercial companies. RPZ assemblies are also available to residential customers for the filling of swimming pools (Typically a 1" is used for pool filling). The RPZ is a device that protects the water distribution system from the possibility of chemical or bacteriological contaminants from entering into the system. *It is extremely important that the RPZ assemblies be installed on fire hydrants when water tanks and swimming pools are being filled from the LBWL water distribution system.* 1" & 2" reduced pressure zone backflow preventer assemblies can be purchased or rented from the Lansing Board of Water & Light - Water Steam Delivery Resource Center (WSDRC).



INSTALLATION NOTES

- * These materials are part of the "Backflow preventer assembly"
- **It is very important that all valves, especially the hydrant main valve, be opened and closed slowly. Rapid opening or closing of the hydrant main valve can severely damage equipment.**
- Only the 2-1/2" hydrant nozzles shall be used for bulk water sales. The 4-1/2" pumper nozzle will not be used for typical bulk water sales.
- Annual LBWL permit for usage must be displayed on RPZ when in use. Test Certification is required for renewal of LBWL RPZ permit.

A Using a hydrant wrench, remove the cap off one of the two 2-1/2" nozzles on the hydrant. Attach the RPZ assembly to the open nozzle and rotate the locking ring until the unit is secured. With the two valves of the RPZ in the OFF position, **slowly** open the main valve of the fire hydrant (opening the main hydrant valve too quickly will damage the RPZ and possibly the hydrant).

B Slowly open the two valves on the RPZ assembly to begin filling the water tank. When filling is completed, slowly turn off the two valves on the RPZ assembly and then **slowly** turn off the hydrant main valve (closing the hydrant main valve too quickly will damage the hydrant and possibly damage the nearby system components and services).

MATERIALS			
REF	ITEM NO.	QTY	DESCRIPTION
①	30-39102	1	Backflow preventer assembly, 1", hydrant mount
②	30-39115	1	Backflow preventer assembly, 2", hydrant mount
③	82-44604	1	6 - 1-1/2" penta hydrant wrench (trumble)
The above equipment may be purchased from Lansing the Board of Water & Light			

Manager, System Integrity & Customer Projects DK Wood Date: 12/18/03
 Manager, Water T&D Resource Center B. McLeod Date: 12/19/03