



Tips/Guidelines for Proper Use of the

# FRWA Valve Exerciser

## Set Up

**The unit will be in two separate parts and needs to be assembled for use.**

1. Install the exerciser unit to the trailer base at the pedestal via the four (4) bolts and nuts in the pipe tool box. The valve turning unit will be located at the rear of the trailer. The trailer uses a 2" ball.
2. Hook up the two hydraulic lines from the trailer to the valve turning unit.
3. The counter plug should be attached to the connector plug under the end of the counter/number of turn readout at the end of the valve turning unit.
4. The hydraulic reservoir plug will need to be removed and replaced with the vent cap on the top of the pedestal. The vent cap can be found in the pipe tool box along with a bolt that can be used to remove the plug.
5. The key for the motor should be found in the pipe tool box in a small baggy. You will need this to operate the motor and it could fall out during transportation. Please safeguard this key.
6. Please check both the engine and hydraulic oil. Please change the oil if there is prolonged use or a substantial black color to the oil

## Transport Tips

1. The narrow, solid axle trailer is only rated to use below 35 MPH. The unit likely will have to be separated into its two pieces and placed on another trailer, back of a pick-up or other transport means.
2. Please do not drive over twenty (20) miles per hour with the hydraulic valve turning unit attached to prevent damage to the unit.
3. The vent cap may have to be switched for the plug while transporting from valve to valve to prevent hydraulic oil spills.
4. Remember, the motor key may vibrate loose and out during transport.

## Unit Operation Tips

Once the unit is dropped close to the valve, it is very well balanced and can easily be moved by hand. The boom can be extended to reach tougher locations. The retainer and pull pens, along with the valve key/extensions, can be found in the pipe tool box. The short pull pens should be used to connect extensions to the valve key to protect the unit and valve box.

- Run the motor at the lowest RPM that will work to protect valve.
- You can refer to the comparison plate on the foot/pounds of force that corresponds with PSI reading from the units gauge.
- Push the hydraulic lever forward to close gate valves
- Pull the hydraulic lever towards the operator to open gate valves.

Roughly, you should have four turns per inch size of gate valve. This can vary! eg. 6" valve X 4 turns per inch=somewhere close to 24 turns on the counter

1. The counter can be reset by depressing the button in the middle of the gauge.
2. Please ensure that the valve stem nut is clean, straight, and not rounded off in order to have the proper fit for the valve key to prevent damage to the valve, valve nut, and valve key. This may require some form of cleaning of the valve box.

**\*\*Be Careful, improper use could result in injury, damage to valve, distribution system or personnel. Please keep hand, feet, and clothing away from any moving parts, especially the valve turner.**

*Please see Valve Exerciser Agreement for additional details!*

Please notify FRWA at 800.872.8207 of any problems, questions, if the unit is not working properly or of any needed repairs to the unit. Also, please let us know when you have finished with the unit so it can be utilized by another FRWA member system.

**There is nothing better than a working effective gate valve when you need it!**

**Florida Rural Water Association  
and  
Member Water System**

**Valve Exerciser Agreement**

In consideration of the mutual covenants contained herein; it is agreed between the Florida Rural Water Association (FRWA) and \_\_\_\_\_ (System), as follows:

The Florida Rural Water Association makes this service available to member water systems in an effort to ensure working gate valves within water distribution system.

**For valve exercising, the Florida Rural Water Association (FRWA) will provide the following:**

1. Valve exercising equipment for use in exercising gate valves.
2. FRWA field person one-half (1/2) day to assist and train personnel in proper use of the borrowed equipment. System will replace equipment if lost or stolen.

**The member wastewater system will provide the following:**

1. No less than two (2) people familiar with the water distribution system to be trained in use of equipment.
2. System will be responsible for purchase of gas for the valve exerciser. System will also provide maintenance, service, and repair of equipment.
3. System will provide all necessary employees' insurance coverage and safety equipment for use by water system personnel (not FRWA employees). Adequate traffic safety signals are the responsibility of the water system
4. The system will hold harmless FRWA for any injury, damage to valves, distribution system, or personnel caused by improper use or over use of the equipment.

\_\_\_\_\_  
DATE

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FRWA REPRESENTATIVE (Please print)

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FRWA REPRESENTATIVE SIGNATURE

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SYSTEM REPRESENTATIVE (Please Print)

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SYSTEM REPRESENTATIVE SIGNATURE