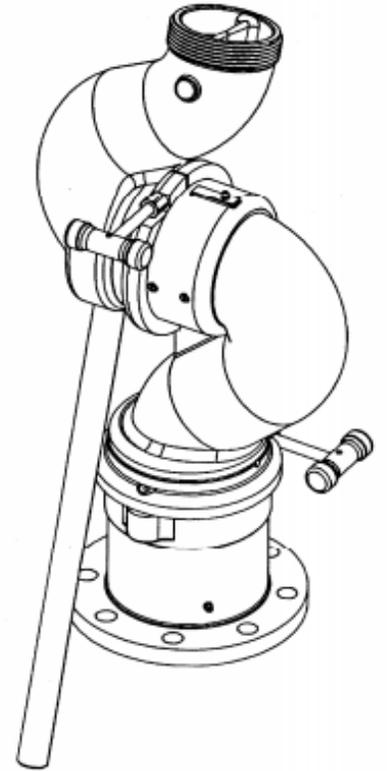




## INSTRUCTIONS FOR THE

8294-131 & 8394-121

## “BIG STICK” MONITORS



### Product Safety



#### **Important:**

Before operating this equipment, read & study this manual thoroughly. Familiarity with the proper use of this product is essential to safe operation. In addition, the following points should be adhered to in order to ensure the safety of equipment and personnel:

- All personnel who may be expected to use this equipment must be thoroughly trained in its safe and proper use.
- Before flowing water from this device, check that all personnel (fire service and civilian) are out of the stream path. Also, check to make sure stream direction will not cause avoidable property damage.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, and the pumping system used to supply it. To produce effective fire streams operating personnel must be properly trained.
- Open water valve supplying this equipment slowly, so that piping and hose lines fill slowly, thus preventing possible water hammer occurrence.
- After each use, and on a scheduled basis, inspect equipment per instructions.
- Never exceed 1250 GPM flow.
- Always engage left/right & up/down locks when un-manned or not in use.

**Master streams are extremely powerful. Therefore, great care must be taken in directing such streams to avoid injury to personnel and unwanted damage to property.**

98071121 Rev-A

**INSTALLATION:** Ensure that there is sufficient clearance in the monitor installation area for the operator to move around with the controls (tiller handle and locking devices) when operating the monitor. Orient the 4"-150# monitor inlet flange to allow best operator access to the horizontal lock and attach it to the mating flange on the water supply pipe with eight (8) 5/8-11 UNC grade 5 carbon steel or stainless steel bolts, 4 ½ inches long, with suitable washers and nuts. Seal the flange joint with a full-face gasket, or suitable flange sealant. Most wafer type butterfly valves have seats that serve as flange gaskets, and separate gaskets or sealant is not required. Apply Loctite® #242 to bolt threads, then thread on all 8 washers and nuts until hand tight, then tighten in a crisscross pattern to 60-70 ft-lbs in increments of approximately 10-15ft-lbs.

**Warning:** When installing the monitor on a raised face flange or butterfly valve, it is critical that bolts be tightened uniformly to prevent cocking of the monitor relative to the flange or valve. If the monitor becomes cocked, the monitor cast flange base can fracture and fail when the bolts on the "high" side are tightened.

**OPERATION:** Turn the handles on the left/right and up/down travel locks clockwise to lock the monitor in position. Turn the handles on the left/right and up/down travel locks counterclockwise to unlock the monitor and allow movement. Once unlocked the tiller handle can be used to direct the nozzle stream. *Caution; both locks must be locked whenever the monitor's tiller handle is left unattended (flowing or not).*

**MAINTENANCE & INSPECTION:** The monitor and all related equipment should be inspected regularly and after each use. Careful inspection for damage to the monitor, nozzle, and related equipment is very important.

- Visually inspect monitor, nozzle and related equipment for damaged or missing parts. Repair or replace if needed.
- Flow water to check nozzle pattern. If pattern is disrupted, remove nozzle and check for debris lodged between the nozzle stem and body, or in the stream shaper inlet. Repair or replace if needed.
- During nozzle flow test, inspect monitor swivel joints for leaks. Repair or replace if needed.

**Note:** Grease fittings are provided for the up-down and left-right rotation joints, routine greasing should be performed to expel water & other contaminants that can get into the rotation joints. If the monitor is exposed to a high level of radiant heat for a prolonged period, it may be possible for the factory grease to thin and run out of the rotation joints. In such an event, fresh grease should be applied. Use Mobilux EP2 or equivalent. Start at one end of travel range and apply grease through the fitting of each joint until fresh grease comes out the joint. Repeat every 30 degrees throughout the full range of travel on each rotation joint. Wipe off any expelled grease when done.