



## STYLE 2491 MASTERSTREAM DELUGE TIP WITH ELECTRIC FOG ACTUATOR OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating the 2491. Read and understand these operating instructions before use.

### PRODUCT RATINGS

Maximum Flow: 2650 GPM (10,000 LPM) at 115psi (8 bar) tip pitot pressure  
Minimum Voltage at motor: 12 Volt Motor: 10 Volts  
24 Volt Motor: 20 Volts  
Maximum Motor Current Draw: 12 Volt Motor: 3 amps  
24 Volt Motor: 1.5 amps

### PRODUCT WARNINGS

- ⚠ WARNING:** Charge all lines slowly to facilitate a controlled water pressure build-up during start-up. Open and close slowly. Rapid opening will produce a sudden thrust. Rapid opening and closing can cause water hammer. Have your monitor properly supported to control the reaction force created by the stream.
- ⚠ WARNING:** At pressures below that indicated on the label, the nozzle will have reduced flow and reach. Be sure you have enough flow and pressure for the situation (See IFSTA and NFPA manuals for guidelines).
- ⚠ WARNING:** Ensure the nozzle is aimed in a direction that is safe, prior to flowing.
- ⚠ WARNING:** Do not use the nozzle as a forcible entry tool. Doing so may damage it or make it inoperable.
- ⚠ WARNING:** Ensure the thread on the nozzle inlet is matched to the thread on the monitor outlet.

### PRODUCT CAUTIONS

- ⚠ CAUTION:** If any tags or bands on the nozzle are worn or damaged and cannot be easily read, they should be replaced.
- ⚠ CAUTION:** For use with fresh water or standard fire fighting foams only. Not recommended for use with salt water. After use with foam or salt water, flush with fresh water.
- ⚠ CAUTION:** For firefighting use only.
- ⚠ CAUTION:** Do not over tighten the nozzle onto the monitor.
- ⚠ CAUTION:** The nozzle is configured for optimum performance. Do not alter in any manner.
- ⚠ CAUTION:** Your nozzle should be inspected prior and after each use, to ensure it is in good operating condition. Periodically, an unanticipated incident may occur where the nozzle is used in a manner that is inconsistent with standard operating practices and those listed in IFSTA. A partial list of potential misuses follows:

- Operating above maximum rated pressure and flow.
- Not draining, and allowing water to freeze inside the nozzle.
- Dropping the nozzle from a height where damage is incurred.
- Prolonged exposure to temperatures above +130 degrees F, or below -25 degrees F,
- Operating in a corrosive environment.
- Other misuse that might be unique to your specific fire fighting environment.

There are many “tell tale” signs that indicate nozzle repair is in order, such as:

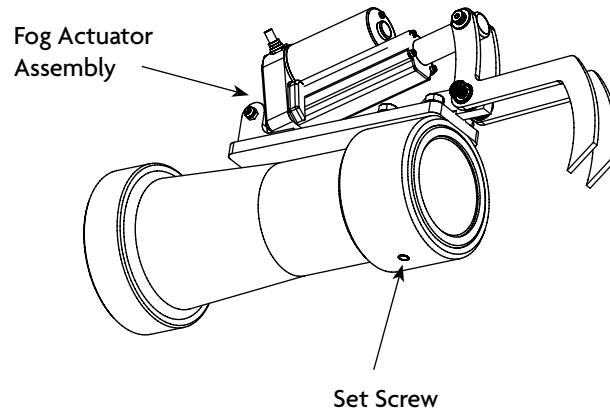
- Controls that are either inoperable or difficult to operate.
- Excessive wear.
- Poor discharge performance.
- Water leaks.

If any of the above situations are encountered, the nozzle should be taken out of service and repaired, plus tested by qualified nozzle technicians, prior to placing it back in service.

## INSTALLATION

- Install tip to the threaded outlet of monitor
- Adjust the position of the Fog Actuator to the Top of the Monitor.
  - This can be accomplished by loosening the set screw on the actuator mounting bracket (See Figure 1) and rotating the actuator assembly to the desired position.
  - Once the actuator assembly is properly positioned on the top of the monitor secure it in place by tightening the set screw on the actuator mounting bracket (See Figure 1)
- Connect the Duetsch connector on the fog electric actuator of the tip with the mating connector on the Monitor.
- Test the operation of the Fog Actuator

**Figure 1**



## OPERATING INSTRUCTIONS

- To change the spray angle, activate the stream control switch to either SS (straight stream) or fog.

## MAINTENANCE

- Under normal conditions, periodically flushing the nozzle with clean water and cleaning grit and dirt from around exterior moving parts will allow the nozzle to operate as designed.