



## STYLE 4445 AND 4447 MERCURY™ NOZZLE OPERATING INSTRUCTIONS

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

### PRODUCT RATINGS

Maximum Pressure: 200 psi/14bar

### PRODUCT WARNINGS

- ⚠ WARNING:** Charge all lines slowly to facilitate a controlled water pressure build-up during start-up. Rapid charging can cause water hammer.
- ⚠ 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:** Ensure the thread on the nozzle swivel is matched to the thread on the mating connection.

### 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:** The nozzle is designed 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 fire fighting use only.
- ⚠ CAUTION:** Do not overtighten the nozzle onto the mating connection.
- ⚠ 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.

## OPERATING INSTRUCTIONS

- To change the spray angle rotate the pattern sleeve. Rotate it clockwise for straight stream and counterclockwise for wide fog.
- The Style 4445 is a single gallonage nozzle. Therefore, there is no adjustment for flow rate.
- The Style 4447 has an adjustable flow rate. To change the flow rate, shut off the flow then push the baffle head in and rotate until the desired setting aligns with the roll pin. Then adjust your engine to provide 100 psi at the inlet of the nozzle.

**NOTE:** Changing the flow setting without adjusting the pressure will affect your actual flow rate i.e. if you change to a higher flow setting, your inlet pressure will decrease and flow will be less than shown on the baffle head. If you change to a lower flow setting, your inlet pressure will increase and your flow rate will be more than shown on the baffle head.

## 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.
- Periodically (at least annually), lubricate the pattern sleeve with Low-Temp Lubriplate.
- Over time the seals and turbine teeth may need replaced. this can be accomplished by purchasing the appropriate Akron repair parts. Use qualified maintenance mechanics or return the nozzle to Akron Brass for repair.



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