



## STYLE 4475 AKROFOAM™ NOZZLE OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating the AkroFoam Nozzle. Read and understand these 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: Drain the AkroFoam after use to prevent freeze damage.

WARNING: At pressures below 100 psi, 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 AkroFoam is aimed in a direction that is safe, prior to flowing.

WARNING: Ensure the thread on the inlet 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 AkroFoam is designed for use with fresh water, sea water or standard fire fighting foams only. 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

- Rated flow at 100-PSI Inlet Pressure.
- The AkroFoam nozzle has a spring-loaded, adjustable flow baffle head with settings of 350, 500, 750 and 1000 GPM. To change flow rates, turn the water off, then push in and rotate the baffle head until the screw heads align with the slots labeled with the flow rate you want.
- To change the pattern rotate the pattern sleeve. Rotate it clockwise for straight stream and counterclockwise for wide fog.
- The AkroFoam nozzle has an adjustable foam metering head. The indicating band identifies the various foam percentages (1%, 3%, or 6%) available for each flow rate (350, 500, 750 and 1000 GPM). Rotate the sleeve until the pin aligns with the flow rate and percentage you want.
- Flush with fresh water after use.

### Note:

Certain foam concentrates are thicker than others, particularly AR-AFFF types. Thicker concentrates may not educt properly at the 1% setting on the metering head when the nozzle is set to 350 or 500 GPM flow settings.

## 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 cam groove in the nozzle body with Low-Temp Lubriplate by removing the cam nut on the side of the pattern sleeve.
- Over time the O-Rings may need to be replaced. This can be accomplished by purchasing the appropriate O-Rings shown on the service parts list. Use qualified maintenance mechanics or return the nozzle to Akron Brass for repair.



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