



## STYLE 4470 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 is shipped without Metering Discs installed. Each nozzle is supplied with 6 Metering Discs for 1%, 3% and 6% foam at various flows. Each Disc is stamped with an alpha letter. Match the letter with the desired foam as noted on the Label attached to the Nozzle Body.

Proportioning Disc ID Chart

GPM	350	500	750	1000
LPM	1300	1900	2800	3800
1%	A	D	F	B
3%	B	E	C	X
6%	C	X		

"X" = No Disc

- To change the Metering Disc, unscrew the Pickup Hose Assembly from the Nozzle Body and remove the Disc, if present. Then insert the Metering Disc into the exposed recess on the Nozzle Body and reattach the Pickup Hose.
- To change the pattern rotate the pattern sleeve. Rotate it clockwise for straight stream and counterclockwise for wide fog.
- The AkroFoam is preset to Flow 500 GPM. To change the Flow Rate, remove the Baffle Head by placing and turning a bar, such as a long screwdriver, between two of the Screw Heads. Once removed, insert the applicable Flow Spacer. Flow Spacers are marked 500, 750 or 1000 GPM. (No spacer = 350 GPM)  
Note: When changing the flow setting always check the Metering Disc to be sure the correct disc is being used for the desired foam percentage.  
The AkroFoam is designed to a pickup rate following NFPA 1901 guidelines for foam proportioning.

## 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 by using the grease fitting 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 ORings shown on the service parts list. Use qualified maintenance mechanics or return the nozzle to Akron Brass for repair.



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