



STYLE 4471 AKROFOAM™ NOZZLE w/ELECTRIC PATTERN ACTUATOR OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating the Style 4471 AkroFoam Nozzle. Read and understand these instructions before use.

PRODUCT RATINGS

Flow:	350, 500, 750 & 1000 gpm
Metering rate:	1%, 3% & 6% for 350 & 500 gpm. 1% & 3% for 750 & 1000 gpm
Maximum Pressure:	200 psi/14bar
Minimum Voltage at motor:	12 Volt Motor: 10 Volts at 15 amps
24 Volt Motor:	20 Volts at 7.5 amps
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. 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 over tighten 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 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.
- 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)
- To change the spray angle, push the toggle switch to either SS (straight stream) or fog.
- To flush the nozzle push the toggle switch towards the fog position until it stops. This gives you the maximum orifice for clearing small debris

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.

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

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 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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