



STYLE 4475 AKROFOAM™ NOZZLE WITH METERING DISCS AND FIXED BAFFLE 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.
- This AkroFoam nozzle has a fixed flow baffle head set for 500 GPM.
- To change the pattern rotate the pattern sleeve. Rotate it clockwise for straight stream and counterclockwise for wide fog.
- The AkroFoam is shipped without Metering Discs installed. Each nozzle is supplied with 2 Metering Discs for 1% and 3% foam at rated flows. Each Disc is stamped with an alpha letter. Match the letter with the desired foam pickup required:

Letter "D" = 1% Pickup at 500 GPM

Letter "E" = 3% Pickup at 500 GPM

- 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.
- Flush with fresh water after use.

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 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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