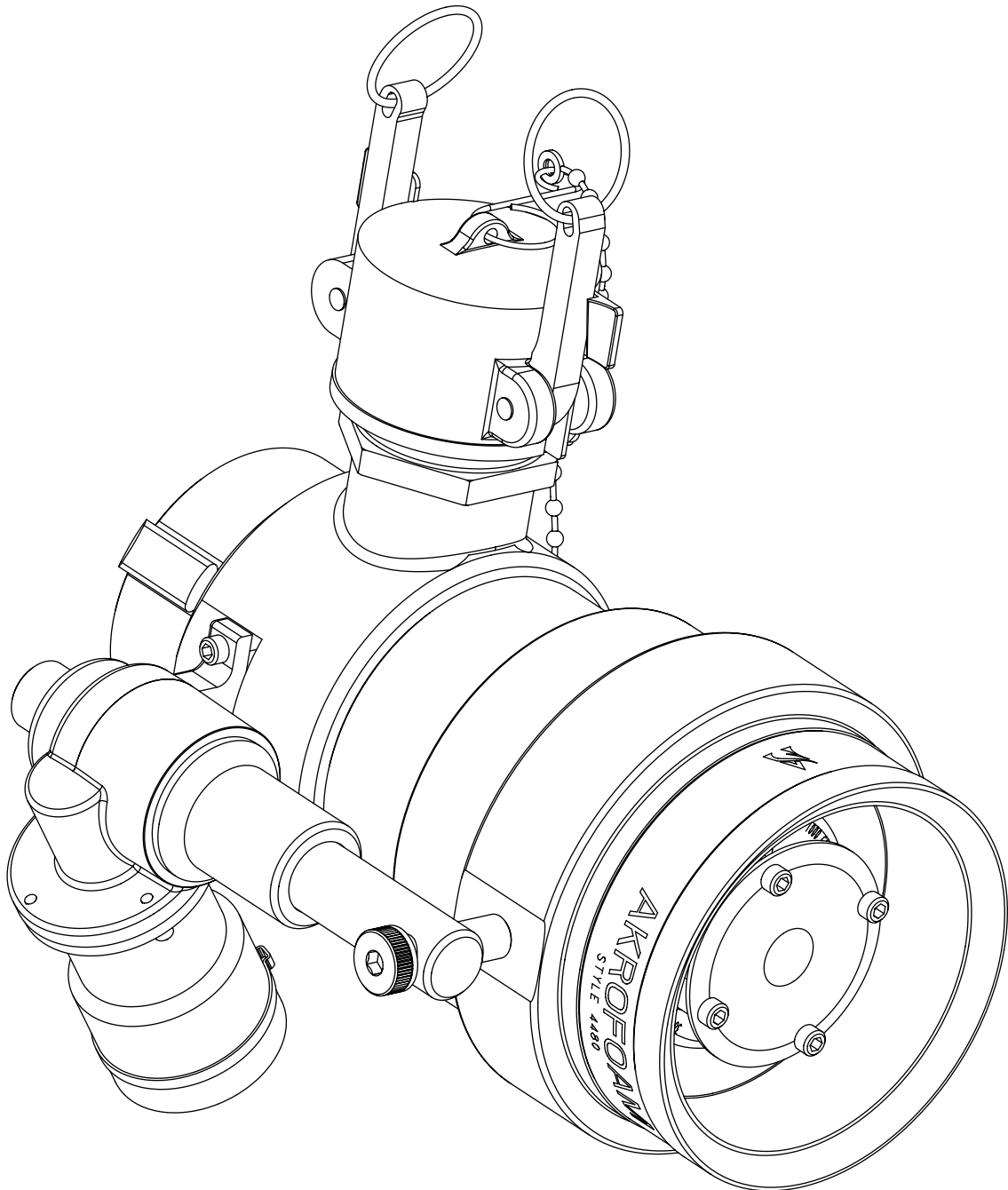




**STYLE 4480 AKROFOAM™ NOZZLE
INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS**



Read and follow the operating instructions before use.
For firefighting use only.

Product Ratings





Electrical Specifications:













| 12-VOLT SYSTEM (11-14 Volts DC) | 24-VOLT SYSTEM (22-28 Volts DC) |
|------------------------------------|------------------------------------|
| Maximum Operating Current | Maximum Operating Current |
| 3 Amps | 1.5 Amps |

Mechanical Specifications:

| Parameter | US Measure | Metric Measure |
|------------------|-------------------------|----------------------------|
| Flow Rate | 300, 500, 750, 1000 GPM | 1325, 1900, 2900, 3800 LPM |
| Maximum Pressure | 200 PSI | 14 Bar |
| Mass | 13.9 Lbs | 6.3 kg |

Mechanical Specifications:

| | |
|---|--|
|  DANGER | • Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury. |
|  WARNING | • Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury. |
|  CAUTION | • Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |
|  NOTICE | • Addresses practices not related to personal injury. |

-  **DANGER**
 - Not for use on electrical fires.
-  **WARNING**
 - Charge the unit slowly. Rapid charging may cause a pressure surge that has the potential to cause an injury, or damage the monitor.
-  **WARNING**
 - Drain the AkroFoam after use to prevent freeze damage.
-  **WARNING**
 - Aim the unit in a safe direction before pumping water through it. (i.e. Away from power lines)
-  **WARNING**
 - Do not exceed the maximum pressure or flow ratings of the nozzle. Exceeding these ratings may lead to an injury or may cause damage to the nozzle.
-  **WARNING**
 - Disconnect power and disable flow before maintenance.
-  **WARNING**
 - Keep all personnel out of the Danger Zone, in front of the outlet of the nozzle when the water source is attached. Dangerous flow velocities can cause serious injury.
-  **WARNING**
 - Not designed for explosive environments.
-  **WARNING**
 - Use only for firefighting by trained operators.
-  **WARNING**
 - Ensure the thread on the nozzle swivel matches the thread on the monitor outlet. Do not over tighten the nozzle onto the unit.
-  **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 thread on the inlet is matched to the thread on the mating connection.

⚠ WARNING

- Your nozzle should be inspected prior to 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 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.

NOTICE**NOTICE****NOTICE**

- If any tags or bands on the nozzle are worn or damaged and cannot be easily read, they should be replaced.
- The AkroFoam is designed for use with fresh water or standard firefighting foams only. It is not recommended for use with salt water. After use with foam, flush with fresh water.
- The nozzle is configured for optimum performance. Do not alter in any manner.

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 desired flow rate.
- To change the spray angle, push the toggle switch on the monitor operator station to either “STREAM” or “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 when the nozzle is set to 350 or 500 GPM.

Installation Instructions

1. Thread the nozzle onto the monitor outlet.
2. Rotate the foam pickup port into required location. Typically this is slightly angled left or right from the vertical position so the foam concentrate hose does not interfere with the monitor.
3. Securely tighten the nozzle swivel.
4. Plug in motor connector
 - The electrical control system must incorporate a current limiting circuitry set for a maximum of 10 amps for 12 volts (5 amps for 24 volts). Without circuitry set, motor may become inoperable if stalled during operation.

⚠ WARNING

Maintenance Instructions

- 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 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 service.

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