STYLE 5055 & 5056 Akromatic® 1000 NOZZLE w/ Hydraulic Pattern Actuator
OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating a Style 5055 & 5056 Akromatic Nozzle with Hydraulic Pattern Actuator. Read and understand these operating instructions before use.

PRODUCT RATINGS

Flow: Style 5055 & 5056   350 - 1000 gpm @ 100 psi/7 bar
(1325 - 3800 lpm)

Maximum Pressure:   200 psi/14 bar

Hydraulic Pressure/Flow Requirements: 1/8 GPM @ 500 PSI Maximum

PRODUCT WARNINGS

⚠️ WARNING: Charge all lines slowly to facilitate a controlled water pressure build-up during start-up. Open and close slowly. Rapid opening will produce a sudden thrust. Rapid opening and closing can cause water hammer. Have your monitor properly supported to control the reaction force created by the stream.

⚠️ 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 nozzle is aimed in a direction that is safe, prior to flowing.

⚠️ WARNING: Do not use the nozzle as a forcible entry tool. Doing so may damage it or make it inoperable.

⚠️ WARNING: Ensure the thread on the nozzle swivel is matched to the thread on the monitor.

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: For use with fresh water or standard fire fighting foams only. Not recommended for use with salt water. After use with foam or salt water, flush with fresh water.

⚠️ CAUTION: Do not over tighten the nozzle onto the monitor.

⚠️ 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 +140 degrees F, or below -40 degrees F,
- Operating in an extremely 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 inoperative 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

DETERMINING FLOW

In determining flows or attempting to achieve specific flows with an automatic nozzle, it is important to understand that:

The Akromatic Nozzle closely maintains 100 P.S.I. nozzle pressure over the nozzle’s operating range. Consequently, you can use the following formula to determine given flows:

\[
EP = FL + NP + \text{(loss or gain due to elevation)}
\]

**EP** = Pump Pressure

**FL** = Friction loss for hose or plumbing and appliance loss at the desired GPM

**NP** = Nozzle Pressure

**NOTE:** Loss or gain due to elevation = approximately 1/2 P.S.I. per foot of height difference between the nozzle and the pump.

With an Akromatic 1000 nozzle, assign 100 P.S.I. nozzle pressure at all times.

- To flush the nozzle hydraulically operate the pattern sleeve towards the fog position until it stops. This gives you the maximum orifice for clearing small debris.
- **Style 5056:** Manual Override: Open the override by-pass by turning the valve in the counter clockwise direction. Manual move the pattern sleeve to the desired pattern. Lock in place by closing the by-pass valve in the clockwise direction.

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 Lubripate 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.