



STYLE 2155 & 2156 Black Widow NOZZLE w/ Hydraulic Pattern Actuator OPERATING INSTRUCTIONS

The following is intended to provide the basic instructions for operating a Style 2155 & 2156 Black Widow Nozzle with Hydraulic Pattern Actuator. Read and understand these operating instructions before use.

PRODUCT RATINGS

Flow: Style 2155 & 2156 300 -1250 gpm @ 70, 80, 90 or 100 psi (as specified)
(1140 - 4700 lpm @ 4.9, 5.6, 6.3, or 7 bar) as specified

Maximum Pressure: 200 psi/14 bar

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

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 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

- To change the spray angle, hydraulically operate the pattern sleeve to the desired pattern. Extend the pattern sleeve for straight stream. Retract the pattern sleeve for wide fog.
- 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.
- 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 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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