A Fitting Connection

AWG

AWG Fittings LLC

43 Summer St.
South Walpole, MA 02071
Tel (508)-850-5260
Fax (508)-850-5262

www.awg-fire.com

Low Expansion Foam Nozzle

⚠ WARNING

Read this instruction manual prior to use.

Using this device without understanding this products' operation and care may lead to injury. If you do not understand how to use this device and do not receive proper training, do not use this product.

1.0 WARRANTY

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- AWG Fittings, LLC warrants to the original purchaser and all subsequent purchasers of the AWG Fittings, LLC products that the product is free from defects in material and workmanship during a one (1) year period from the date of its sale by AWG Fittings, LLC.

- AWG Fittings, LLC's obligation under this warranty is specifically limited to replacing or repairing any product which is determined by AWG Fittings, LLC's inspection to be in a defective condition attributed to AWG Fittings, LLC's manufacturing or design. If AWG Fittings, LLC determines the product is defective, then AWG Fittings, LLC will repair or replace the product during the warranty period. The purchaser or beneficiary must notify AWG Fittings, LLC of any alleged defect within a reasonable time period.

- If AWG Fittings, LLC determines that the product is defective, then it will replace the product, repair the product or refund the purchase price, at AWG Fittings, LLC's election.

- This warranty is a LIMITED WARRANTY. The original purchaser of the product and any subsequent purchaser of the product and any person who is an intended or unintended beneficiary of the product shall not be entitled to recover from AWG Fittings, LLC any consequential or incidental damages for injury to person and/or property resulting from any defective product manufactured or assembled by AWG Fittings, LLC. It is agreed that the price stated and paid for the product is in part consideration for limiting AWG Fittings, LLC's liability.

- This is a limited Expressed Warranty Only. AWG Fittings, LLC EXPRESSLY DISCLAIMS WITH RESPECT TO THE PRODUCT ALL IMPLIED WARRANTIES OF **MERCHANTABILITY** AND ALL IMPLIED WARRANTIES OF **FITNESS FOR A PARTICULAR PURPOSE**.

- There are NO WARRANTIES of any nature made by AWG Fittings, LLC beyond that stated in this Warranty

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2.0 Safety and Cautions

Safety words defined

⚠ DANGER — Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury

⚠ WARNING — Indicates a potentially 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.

Safety and Cautions

⚠ DANGER This equipment is to be used by trained firefighting personnel only. Failure to obtain proper training may result in severe injury or death.

⚠ DANGER Do not exceed maximum operating pressure. Exceeding the maximum rated pressure for this appliance may cause malfunction, or failure resulting in severe injury or death.

⚠ DANGER Failure of fittings and hoses can result in injury. Use caution not to exceed hose pressures as stated in NFPA 1961 for the type of hose being used.

⚠ DANGER Make sure all connections are secure and complete. Failure to ensure proper connection may result in leaks or cause the devices to become disconnected under pressure, resulting in injury or death.

⚠ DANGER Open and close all valves slowly. Failure to operate valves slowly may cause water hammer, which may result in damage or failure of hose, coupling devices, and appliances leading to injury or death.

⚠ WARNING Do not use if damaged. Damage to product may cause malfunction or failure. Remove from service until unit can be repaired.

⚠ WARNING Check for damage or worn coupling connections. Damage or worn connections may become disconnected under pressure. Remove from service to be repaired by an AWG certified repair facility.

⚠ CAUTION For use with fresh or salt water, with or without firefighting foam.

⚠ WARNING Altering of this device may reduce its operating effectiveness, or safety. Do not alter or change in any way from its intended design.

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3.0 Overview

Construction:
Stainless steel pipe
Aluminum shut off valve

Style	Swivel inlet	Throw Distance	length	Weight (lbs)	GPM@100 psi
HFN-60 1.5"	1 .5"		29 .25"	8 .125	60
HFN-95 1.5"	1 .5"		29 .25"	8 .125	95
HFN-125 2.5"	2 .5"		29 .25"	8 3/8	125

3.0 Overview

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⚠ DANGER

The foam nozzle must used with the correct foam eductor to produce the correct proportions of foam concentrate to water mix. Incorrect foam solutions may be ineffective in fighting fire and lead to prolonged firefighting operations, injury or death.

⚠ DANGER

This nozzle may only be used by properly trained firefighting personnel who have read and understood the proper operation of this equipment. Failure to receive the proper training or understanding the operation of this equipment may lead to its improper use and lead to serious injury or death.

⚠ WARNING

Nozzle reaction can pose a hazard to the nozzle operator if he/she is not prepared to restrain the force. The operator must be prepared for changes in the reaction force due to pattern changes and changes in the hose line pressure.

⚠ WARNING

The nozzle may become out of control if the nozzle operator fails to react to changes in nozzle reaction or falls due to loss of footing. DO NOT attempt to regain control of an out of control nozzle while it is under pressure. Retreat to a safe area and shut down the hose line at its supply. Injury from a whipping hose line can occur.

⚠ WARNING

Pressurized water streams can cause injury to people. Use caution when operating fire streams, do not intentionally direct the fire steam at people.

⚠ DANGER

Water can conduct electricity and applying water on or near electrical equipment can cause injury or death from electrocution. The use of foam and/or salt water can increase the conductivity of the water stream

⚠ DANGER

Firefighting foam operations require special training and present their own set of hazards. Personnel should not engage in foam operations until they have had proper training in foam operations. Failure to do so may lead to serve injury or death.

4.0 Operation

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⚠ DANGER

Check to be sure you have sufficient foam concentrate prior to starting firefighting operations with foam equipment.
A sudden loss of foam solution may lead to a loss of the protective foam blanket exposing personnel to flammable vapors or active fire and can lead to severe injury or death.

⚠ DANGER

Securely connect the nozzle to the hose line.

- If connected with a non-threaded coupling (i.e. storz) be sure the locking device is fully engaged, failure to engage the locking device may lead to the nozzle becoming disconnected under pressure.

Make sure all connections are secure and complete. Failure to ensure the proper connection may result in leaks or cause the devices to become disconnected under pressure resulting in injury or death.

Check for damaged or worn coupling connections. Damaged or worn connections may become disconnected under pressure. Remove from service and repair appropriate parts.

⚠ WARNING

Make sure you have a firm grasp of the nozzle and have your balance before filling the hose with water and pressurizing the hose. The pressurized hose line may push, turn or jump if not held onto properly causing injury.

⚠ WARNING

With the control handle of the nozzle in the closed position slowly fill the hose line with water to prevent water hammer. Water hammer may damage fittings, couplings and valves resulting in injury.

⚠ WARNING

When using the nozzle always open and close the nozzle slowly to prevent water hammer.

While the hose line is filling, open the nozzle slightly to bleed off trapped air from the hose.

4.0 Operation

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Once the trapped air has been bled from the hose line the pressure may be slowly increased to the proper working pressure. This will ensure the foam concentrate and water are mixing properly so the foam nozzle can aspirate air into the foam solution and create a proper expansion of foam.

Once the nozzle is producing the proper foam firefighting operations can begin.

⚠ WARNING

Continuously observe the quality of foam being expelled from the nozzle to ensure all parts of the operation are working properly. If foam generation begins to deteriorate personnel should retreat to a safe area before diagnosing any problems.

When operations have been completed, shut down nozzle and hose line and bleed off any excess pressure in the hose line prior to disconnecting the nozzle.

⚠ WARNING

Attempting to disconnect the nozzle without removing pressure from the hose line may result in injury.

Clean and inspect the nozzle for damage or malfunctioning parts prior to returning the nozzle to service.

Do not use if damaged. Damage to product may cause malfunction or failure. Remove from service until unit can be repaired.

Check for damaged or worn coupling connections. Damaged or worn connections may become disconnected under pressure. Remove from service and repair appropriate parts.

5.0 Care and Maintenance

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Flush completely with fresh water after use.

Check all O-rings and gaskets to ensure proper operation.

Exercise all control valves routinely to ensure smooth operation.

Periodically clean and rinse the nozzle to reduce the build up of dirt and debris inside the nozzle.

Lubricate as necessary with an AWG recommended lubricant. AWG lubricant is water resistant and does not contain mineral oil, solvents or silicone.

Do not use excessive amounts of lubricant Over lubricating may cause dirt to collect inside the valve.

Use only recommended lubricant, improper lubricants may cause premature failure of O-rings and seals.

Apply lubricant to the following point to ensure smooth operation:

> Lightly apply lubricant to the shut off valve. Open and close the valve several times to spread lubricant over the entire valve and ensure smooth operation.