

Technical Bulletin

TWIN-AGENT NOZZLES

DESCRIPTION

Task Force Tips is now offering a line of dual agent nozzles for use with specialized extinguishing agents. The units consist of two nozzles with bail type slide-valve shutoffs, mounted side-by-side with a single pistol grip mounted underneath. Each nozzle can be operated individually and is dedicated to a specific extinguishing agent. There are three types of nozzles available for discharging the following extinguishing agents;

1. WATER/AFFF (1%-3%-6%)
2. DRY CHEMICAL (Mono-ammonium Phosphate, Potassium Bicarbonate, Potassium Chloride.)
3. HALON (1211-1301)

Normally, the WATER/AFFF unit will be mounted on the left hand side of the gun. All nozzles are 1" NPT female inlet standard. Special inlet configurations are available.

WATER/AFFF NOZZLES

The nozzle for use with water or AFFF is identical to the TFT ULTIMATIC 125 nozzle with the exception of the pipe thread in let.

It has fully automatic pressure control regulated to approximately 100 psi through out the flow range of 10-125 GPM. It is available in an aspirated or non-aspirated version.

DRY CHEMICAL NOZZLES

The dry chemical nozzle is designed for an application rate of 5 pounds per second. The dry chemical nozzle utilizes the same slide-valve design as used for water application and a special front end designed for dry chemicals.

The front end consists of the valve seat, a set of straightening fins and a straight through barrel section. The valve seat is designed to withstand the abrasive impact of the dry chemical agent which can approach velocities of 200 MPH.

The nozzle operator can select from six valve settings to flow an appropriate rate of dry chemical agent up to the limit of the system.

Effective reach of the cloud is 75 feet at full flow and proportionately less at partial valve settings. The agent exits in a straight stream, gradually dispersing into a cloud several feet in diameter as it projects outward. There is no adjustment of pattern shape as with water stream nozzles.

HALON NOZZLES

Halon nozzles are a special variation of our standard Ultimatic 125 water nozzle. The valve design and therefore service procedures, are identical to the valve which is used for water application. The front end of the nozzle uses a highly restrictive valve plug and a high pressure control spring to regulate the flow of halon to 5 pounds per second at approximately 180 psi discharge pressure.

When set in the straight stream position, the liquid Halon 1211 will travel up to 65 feet. The halon quickly vaporizes into a transparent cloud of gas as it is projected forward. Additional reach of the gas will depend on several factors including prevailing atmospheric conditions. The nozzle operator may select from six flow settings on the valve up to the maximum capacity the system will deliver. The halon nozzle may be operated in either straight stream or variable fog positions.

When halon vaporizes, it lowers the temperature of the nozzle to below freezing. The nozzle must be operated

with gloved hands to prevent flesh from being frozen to the nozzle. Halon will also freeze any water inside the nozzle thus preventing the moving parts within from operating. Special care to prevent contamination of halon nozzles from water should be taken.

CONFIGURATIONS

Dual agent nozzles are available with any combination of two agents by ordering the following model numbers:

- B-DUAL
Water/AFFF & Dry Chemical
- B-DUAL/WH
Water/AFFF & Halon
- B-DUAL/CH
Dry Chemical & Halon

