

## Twin-Agent Nozzle (Over/Under Model)

### Description

The nozzles are mounted in an over/under configuration with the dry chemical nozzle on top and AFFF on the bottom. The longer range dry chemical nozzle is mounted on top to minimize interference with AFFF during simultaneous discharge. The over/under configuration results in a more compact unit permitting improved maneuverability when moving hoses among obstacles.

The flow rates are designed to maximize the knockdown capability of dry chemical and the securing capability of ANSULITE AFFF. Additionally, the increased range of the AFFF nozzle allows the ANSULITE AFFF to be used as a primary suppressing agent as well as a securing agent.

### Application

The ANSUL® Twin-Agent Nozzle was specifically designed for the complex hazards found in modern industrial facilities. The combination of dry chemical and ANSULITE AFFF (aqueous film-forming foam) provides excellent knockdown and securement characteristics for flammable liquid spill, running and pressure fires. Each nozzle has a shut-off valve so the agents can be discharged together or independently.

This unique nozzle gives a single, trained fire fighter the capability to take on complex fires including three-dimensional and obstacle fires.

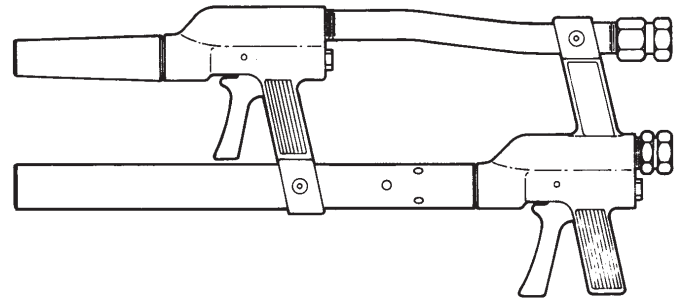
### Specifications

The dry chemical/AFFF hand line shall be provided with a twin-agent nozzle specifically designed and tested for use with the specified agents. The nozzle shall be of the over/under configuration with the dry chemical and AFFF nozzle barrels mounted in the same vertical plane and rigidly connected. The dry chemical nozzle shall be mounted above the AFFF nozzle to minimize interference of the agents during discharge.

Separate integral shut-off valves shall be incorporated for the AFFF and dry chemical portions of the nozzle. Each valve will be independent and trigger-operated to allow the agents to be discharged together or independently by a single operator.

The AFFF nozzle barrel shall consist of an aluminum tube, 2 in. (5 cm) in diameter, with aeration holes to aid in expanding the AFFF solution. A diffuser, 1 in. (2.5 cm) in diameter, shall be concentrically located at the end of the nozzle barrel to widen the stream pattern and soften the impact upon the foam blanket. To minimize operating controls and to eliminate appendages which could be damaged, no separately controlled foam shaper shall be included on the AFFF barrel.

The nozzles shall meet the requirements specified in the chart below:



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	Purple-K	AFFF
Flow Rate	4.8 lb (2.2 kg) per sec	60 gal (227 L) per minute
Range	30 ft (9 m)	25 ft (7.6 m)
Hose I.D.	3/4 in. (1.9 cm)	1 in. (2.5 cm)
Hose Length	100 ft (30 m)	100 ft (30 m)

**Note:** Actual flow rates and ranges will depend on the type of system and hose line lengths used.

The dry chemical nozzle shall consist of an aluminum barrel designed to produce a semi-diffused low recoil pattern.

The nozzles shall be fitted with female connectors to allow attachment to 3/4 in. (1.9 cm) dry chemical and 1 in. (2.5 cm) AFFF male hose connectors. The aluminum barrels and grip castings shall be anodized aluminum. All portions of the AFFF nozzle shall be constructed of materials suitable for use with the AFFF solution.

### Ordering Information

The ANSUL Twin-Agent Nozzle Shipping Assembly, ANSUL Part No. 54735 is 29 in. (72.5 cm) x 12 1/2 in. (31.3 cm) x 2 3/4 in. (6.9 cm) and weighs 9 lb (4.05 kg).

**Note:** The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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