Ultra Low Flow AQUAMIST
Type ULF AM28 Nozzles
Automatic (Closed)

General Description
TYCO Ultra Low Flow AQUAMIST Type
ULF AM28 Nozzles are closed (auto-
matic) nozzles intended for use with
engineered, water-mist systems. They
are low-pressure nozzles that utilize a
single fluid jet impinging on a diffuser
to produce a spray having a range of
water droplet sizes suitable for the
control of Class A fires.

It is recommended that the end user
be consulted with respect to the suit-
ability of the materials of construction
for any given corrosive environment.
The effects of ambient temperature,
concentration of chemicals, and gas/
chemical velocity should be consid-
ered, at a minimum, along with the cor-
rrosive nature to which the nozzles may
be exposed.

NOTICE
The TYCO Ultra Low Flow AQUAMIST
Type ULF AM28 Nozzles described
herein must be installed and maintained
in compliance with this document and
with the applicable standards of the
VdS CEA 4001 “Sprinkler Systems
Planning and Installation” or EN12845
“Automatic Sprinkler Systems - Design,
Installation and Maintenance”, in addi-
tion to the standards of any authorities
having jurisdiction. Failure to do so
may impair the performance of these
devices.

Approvals
The TYCO Type ULF AM28 AQUAMIST
Nozzles are VdS approved when used
as part of an engineered, wet-pipe
water mist system. In particular, the
VdS approval was performed in accor-
dance with test protocols “Fire tests
for ‘Office, OH1’ and similar” dated
December 6, 2007, and “Fire tests for
‘Hotel, OH1’ and similar” dated October
10, 2011.

Technical Data
Discharge Coefficient
K=11,7 lpm/bar½ (K=0.81 gpm/psi½)
Thread Connection
1/2 Inch NPT
Response Time Index (RTI)
33,13 (m·s)½ (60.24 (ft·s)½)
Finish
Natural Brass
Pure White
Signal White
Chrome Plated
Temperature Ratings
57ºC (135ºF)

Design Criteria
Obtain guidance for the design of a
water mist system that utilizes the
TYCO Ultra Low Flow AQUAMIST
Nozzles Type ULF AM28 from the Tech-
nical Services department.
Installation

TYCO Ultra Low Flow AQUAMIST Type ULF AM28 Nozzles must be installed in accordance with this section.

Do not install any bulb type nozzle if the bulb is cracked or there is a loss of liquid from the bulb. With the nozzle held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1.6 mm (1/16 in.) for the 57°C (135°F) temperature rating.

A leak-tight 1/2 inch NPT nozzle joint should be obtained by applying a minimum-to-maximum torque of 9.5 to 19.0 N·m (7 to 14 ft-lb). Higher levels of torque can distort the nozzle inlet and cause leakage or impairment of the nozzle.

Type ULF AM28
The Type ULF AM28 AQUAMIST Nozzles must be installed in accordance with the following instructions:

Step 1. Install the Type ULF AM28 in the pendent position as shown in Figure 1.

Step 2. With pipe thread sealant applied to the pipe threads, hand-tighten the nozzle into the nozzle fitting.

Step 3. Tighten the nozzle into the nozzle fitting using only the W-Type 6 Wrench (Ref. to Figure 2). With reference to Figure 1, apply the W-Type 6 Wrench to the wrench flats.
Care and Maintenance

TYCO Ultra Low Flow AQUAMIST Type ULF AM28 Nozzles must be maintained and serviced in accordance with this section.

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection system from the proper authorities and notify all personnel who may be affected by this action.

Nozzles which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic nozzles must never be painted, plated, coated, or otherwise altered after leaving the factory. Modified nozzles must be replaced. Nozzles that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the nozzle with a cloth or by brushing it with a soft bristle brush.

Care must be exercised to avoid damage to the nozzles before, during, and after installation. Nozzles damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any nozzle that has a cracked bulb or that has lost liquid from its bulb (Ref. Installation section).

Frequent visual inspections are recommended to be initially performed for nozzles installed in potentially corrosive atmospheres to verify the integrity of the materials of construction and finish as they may be affected by the corrosive conditions present for a given installation. Thereafter, annual inspections per applicable standards are required, in addition to inspections required by the authority having jurisdiction.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of any other authorities having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

Water mist systems should be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and part number (P/N).

Type ULF AM28 AQUAMIST Nozzles
Specify: Type ULF AM28 AQUAMIST Nozzle with 57°C (135°F) temperature rating, finish (specify), and P/N (specify):

- Natural Brass ....................................... 49-028-1-135
- Pure White (RAL9010).......................... 49-028-3-135
- Signal White (RAL9003)........................ 49-028-4-135
- Chrome Plated ................................. 49-028-9-135

a. Eastern Hemisphere sales only
b. Formerly known as Bright White

Escutcheon
Specify: Style 20 Recessed Escutcheon with (specify*) finish, P/N (specify*)

* Refer to Technical Data Sheet TFP770

Wrench
Specify: W-Type 6 Sprinkler Wrench, P/N 56-000-6-387
Specify: W-Type 7 Sprinkler Wrench, P/N 56-850-4-001