

General Description and Installation Instructions For Aegis Models 201M, 202M, 203M, 201EM, 202EM and 203EM

Printed 6/25/2012 10:57 AM

GENERAL DESCRIPTION

The Aegis Technologies, Inc. (Aegis) Model 201M, 202M, 203M, 201EM, 202EM, & 203EM Adjustable Drop Nipples (ADN) consists of high strength carbon steel components and ethylene propylene diene monomer (EPDM) O-ring seals. The outer component assembly, with a one inch (1") male NPT inlet, and the inner component, with a half or three-quarter inch ($\frac{1}{2}$ " or $\frac{3}{4}$ ") NPT sprinkler outlet, adjusts in or out over a specified range with the use of two (2) O-ring seals and screw type threads to permit, without re-cutting, the adjustment of the distance of the sprinkler from the sprinkler system branch line. Once in its final adjusted position, the ADN will not extend as a result of system vibrations or pressure surges.

STANDARDS & TECHNICAL DATA

The Aegis ADN's are designed for use in wet or dry automatic fire sprinkler systems in accordance with National Fire Protection Association's Standards 13, 13R, & 13D, and is rated for use at a maximum pressure and temperature of 300 PSI and 300°F, respectively. For the following Models, the minimum - maximum length, the maximum sprinkler K-factor (gpm/psi^{1/2}), and the approximate friction loss expressed in equivalent lengths of straight 1" Sch. 40 pipe in feet, where C=120, are: Model 201M: 3.675"-4.675"/ 11.2 / 1.6'; Model 202M: 4.675"-6.675"/ 11.2 / 1.7'; Model 203M: 5.675"-8.675"/ 11.2 / 3.3', Model 201EM: 5.938"-6.938"/ 11.2 / 4.9'; Model 202EM: 6.925"-8.938"/ 11.2 / 4.9'; Model 203EM: 7.938"-10.938"/ 11.2 / 6.0' respectively. The inlet and outlet threads conform to ANSI B1.20.1. Each unit has been pressure tested prior to shipment and does not contain any field serviceable parts.

INSTALLATION

1. For use in either a wet or dry pipe automatic fire sprinkler systems installed and maintained in accordance with National Fire Protection Association's Standards 13, 13R, & 13D as well as any authority having jurisdiction. Note that FM Global does not permit pendent sprinklers in dry sprinkler systems.
2. Insure the mating female fitting and sprinkler conform to threading standard ANSI B1.20.1 and the threads of all fittings to be installed are clean of any debris and free of any petroleum products. The EPDM O-ring seals are pre-lubricated and must not come in contact with any type of petroleum based lubricants or sealants.
3. Apply an anaerobic pipe thread sealant to the sprinkler and install it into the $\frac{1}{2}$ " or $\frac{3}{4}$ " outlet of the ADN using the wrenching area of the inner casing insuring that a minimum of 6 to 7 full threads are made-up. Note that instead of wrenching on the smooth area of the inner casing, a standard $\frac{3}{4}$ " hex key can be inserted into the 1" inlet and then into the hex socket of the inner case so to help make-up the sprinkler. If the $\frac{1}{2}$ " or $\frac{3}{4}$ " joint fails to make-up at least 6 to 7 threads, back the sprinkler out and clean the threads of any debris and insure the threads conform to ANSI B1.20.1. Do not over tighten the joint as you might damage the threads. If in tolerance, re-apply anaerobic pipe thread sealant to the sprinkler and re-install it into the ADN insuring to at least 6 to 7 threads are made-up. Allow at least 24 hours for the joint to set.
4. Apply an anaerobic pipe thread sealant to the ADN male inlet and install the ADN/sprinkler assembly on to the sprinkler system nipple at least 6 to 7 threads using the wrenching area between the upper line on the barrel and the 1" male threads. If the 1" joint fails to make-up 6 to 7 threads, back the ADN/sprinkler assembly out and clean the threads of any debris and insure the threads conform to ANSI B1.20.1. Do not over tighten the joint as you might damage the threads. If in tolerance, then re-apply anaerobic pipe thread sealant to the ADN/sprinkler and re-install it into the 1" female threaded fitting insuring at least 6 to 7 threads are made-up. Do not wrench on the ADN barrel or sprinkler as damage to the ADN or sprinkler may occur. Allow at least 24 hours for the joint to set.
5. Once the finished ceiling/wall has been installed, adjust the sprinkler to its final position by using a sprinkler wrench. While draining the system is not necessary, the system must be depressurized before adjusting the Adjustable Drop Nipple, as personal injury or death may result from working on or adjusting any pressurized fittings.