

# General Description and Installation Instructions For Aegis Models 40MT, 40PE, & 40DE

Printed 6/25/2012 11:06 AM

## GENERAL DESCRIPTION

The Aegis Technologies, Inc. (Aegis) DROPSTER™ Models 40MT Male Thread End, 40PE Plain End, and 40DE Double End Non-Adjustable Drop Nipples (Dropster) are made of high strength carbon steel pipe with a 1" NPT Threaded, Plain-End, or Contoured inlet and a 1/2" or 3/4" NPT outlet. The Plain End (PE) and Double End (DE) configuration must be cut to length and threaded in the field prior to installation.

## STANDARDS & TECHNICAL DATA

The Aegis Dropster is designed for use in wet or dry automatic fire sprinkler systems in accordance with National Fire Protection Association's (NFPA) Standards 13, 13R, & 13D, and is rated for use at a maximum pressure and temperature of 300 PSI and 300°F, respectively. The inlet and outlet threads conform to ANSI B1.20.1. Each unit has been pressure tested for prior to shipment and does not contain any field serviceable parts. The approximate friction loss expressed in equivalent lengths of straight 1" Sch. 40 pipe in feet, where C=120 for the following models and specified lengths are:

MODEL LENGTH	≤6"	6-12"	12-18"	18-24"	24-30"	30-36"
with 1/2" outlet	0.5'	1.0'	1.7'	2.1'	2.1'	3.9'
with 3/4" outlet	2.4'	2.6'	3.0'	3.4'	3.8'	4.4'

## DROPSTER MODEL 40MTMALE THREAD END INSTALLATION

- 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.
- Insure the female threaded fitting and sprinkler conform to threading standard ANSI B1.20.1 and the threads of all fittings to be installed are clean of excessive cutting oil and debris.
- Apply an anaerobic pipe thread sealant to the 1" threads of the Dropster and install it into the 1" threaded fitting using a pipe wrench insuring that a minimum of 6 to 7 full threads are made-up. You may alternatively make-up the joint using the 1 1/8" or 1 1/4" wrench flats or with the use of a 1/2" or 3/4" Aegis Socket Tool on the 1/2" or 3/4" outlet fittings, respectively. If the 1" joint fails to make-up at least 6 to 7 threads, back the Dropster out and clean the threads of any debris and insure all 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 Dropster and re-install it into the female threaded fitting insuring to at least 6 to 7 threads are made-up. Allow at least 24 hours for the joint to set.
- Apply an anaerobic pipe thread sealant to the sprinkler and install it into the 1/2" or 3/4" outlet of the Dropster using the wrenching area of sprinkler insuring that a minimum of 6 to 7 full threads are made-up. If the 1/2" or 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 Dropster insuring to at least 6 to 7 threads are made-up. Allow at least 24 hours for the joint to set.

## DROPSTER MODEL 40PE PLAIN END OR 40DE DOUBLE END INSTALLATION

- 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.
- Insure the female threaded fitting and sprinkler conform to threading standard ANSI B1.20.1 and the threads of all fittings to be installed are clean of excessive cutting oil and debris.
- Cut the Dropster to desired length between and/or up to 1" of the stamped product marking(s). Minimum length of a cut-in field Dropster Model PE/DE is four inches (4").
- Cut male 1" NPT threads according to ANSI B1.20.1
- Clean male 1" NPT thread of chips and coolant. Inspect with proper gauges.
- Apply an anaerobic pipe thread sealant to the 1" threads of the Dropster and install it into the 1" threaded fitting using a pipe wrench insuring that a minimum of 6 to 7 full threads are made-up. You may alternatively make-up the joint using the 1 1/8" or 1 1/4" wrench flats or with the use of a 1/2" or 3/4" Aegis Socket Tool on the 1/2" or 3/4" outlet fittings, respectively. If the 1" joint fails to make-up at least 6 to 7 threads, back the Dropster out and clean the threads of any debris and insure all 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 Dropster and re-install it into the female threaded fitting insuring to at least 6 to 7 threads are made-up. Allow at least 24 hours for the joint to set.
- Apply an anaerobic pipe thread sealant to the sprinkler and install it into the 1/2" or 3/4" outlet of the Dropster using the wrenching area of sprinkler insuring that a minimum of 6 to 7 full threads are made-up. If the 1/2" or 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 Dropster insuring to at least 6 to 7 threads are made-up. Allow at least 24 hours for the joint to set.
- The Model 40DE Double Ended Dropster DOES NOT CONFORM to UL and NFPA requirements in the double ended configuration. The Model 40DE MUST BE CUT AND THREADED PRIOR to installation in order to conform to UL and NFPA requirements.

