

**STATIC DISCHARGE GROUNDING REEL
INSTALLATION/OPERATION INSTRUCTION SHEET (P/N 922-30-028)**

Introduction

Static discharge reel models: 200-20R, 700-50R, 800-75R, 800-100R, ML2930, ML3416 and all A-A-50696 compliant reels are intended for bonding and grounding of mobile fuel equipment at bulk stations, airports, terminals, refineries, etc.

Bonding and Grounding Principles

Bonding connects various pieces of conductive equipment together to keep them at the same potential. Static sparking cannot occur between objects that are at the same potential.

Grounding is a form of bonding in which conductive equipment is connected to an earthing electrode or to a building's grounding system in order to prevent sparking between conductive equipment and grounding structures.

Refer to the National Fire Protection Association Codes, NFPA 77 and NFPA 99 for recommended practices on static electricity.

Reel Installation

In order for the grounding reel to function properly it must be mounted to a clean, conductive surface using the through holes provided in the reel's base bracket. After mounting the reel, extend the cable fully and engage the ratchet to prevent the cable from retracting back inside the reel. With the cable fully deployed, measure the electrical resistance of the grounding path (i.e. the resistance measured in ohms between the connector at the end of the cable and the surface the reel is mounted to). The resistance of the grounding path should not exceed 10 ohms.

Reel Operation

Extend the cable to a suitable earth ground source and engage the ratchet to lock the cable in place. Clamp the cable to the ground source and make sure it is secure. A simple tug on the cable will disengage the ratchet and allow the cable to retract. For a smooth and steady retraction, it is recommended to walk the cable slowly back to the reel.

Perform periodic resistance measurements between the end connector and the mounting surface of the reel using an ohmmeter or other suitable device. The maximum resistance should not exceed 10 ohms. If the resistance measured is higher than 10 ohms, inspect the cable for kinks or broken wires. The connector at the end of the cable should also be inspected to ensure that it has the proper amount of compression force.

Caution: Do not use any part of the electrical current carrying system as a ground for static grounding. Arching and fires could occur from current feedback where static controls grounds are tied into the electrical system neutral.

WARNING: This product can aid in the discharge of static electricity. No prediction or advice, however, can be given about all of the different conditions which can cause static discharges to accumulate. Moreover, it cannot be guaranteed that the use of this product (without other precautionary steps) will prevent static ignited fires or explosions which may result in serious injury or death.

SEEK PROFESSIONAL ADVICE BEFORE INSTALLING AND/OR USING THIS PRODUCT.

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