

# Bonding for Floating Roof Tanks

## MAGS

### Moveable Arm Grounding System

- **Best Available Technology**

Meets API 545, NFPA 780, and IEC 62305 Standards requirements for bypass conductors

- **Safe insulated conductor**

UV and Thermal protected cable, rated for extreme climates

- **Low Maintenance, nothing to break**

Simple gravity powered design, no spring loaded parts or retracting reels

- **Highest quality components**

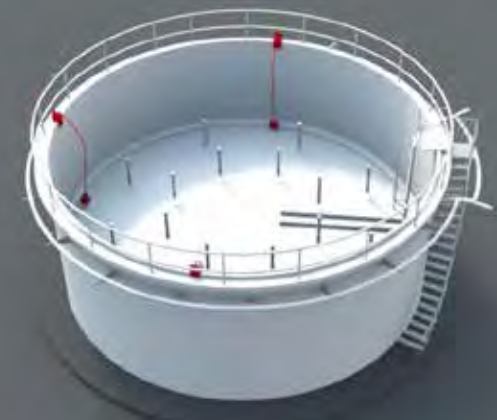
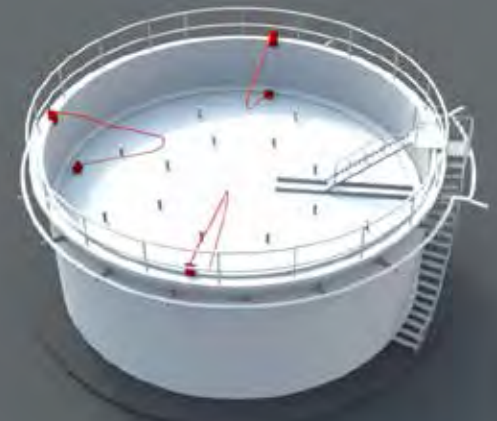
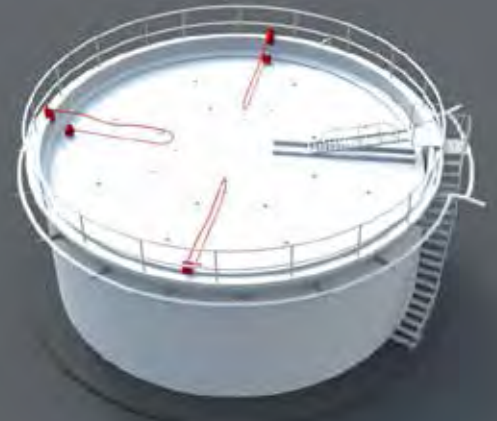
300 series stainless steel base, fiber glass arm

- **Manufactured in-house**

Lightning Master Corporation, USA

- **Patent Pending**

Extensive research and development, and product testing result in highest quality system

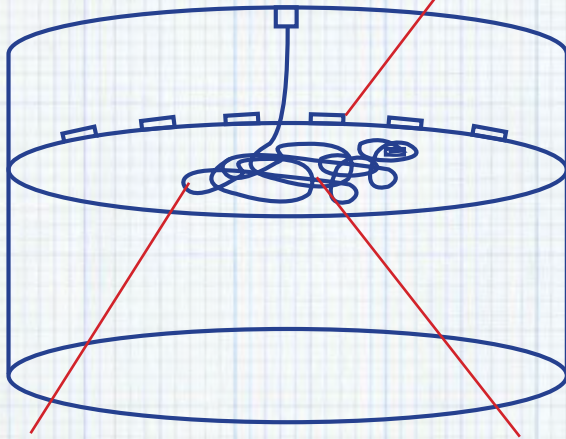


**Lightning Master** is a full service, full spectrum static solutions and lightning and transient protection company **servicing the oil and gas and chemical industries since 1984**. Our complete line of products and systems is backed by our world-wide support and customer service. Lightning Master is the global leader in lightning and static protection

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## DIFFICULTY OF LOOSE CABLE

Cable can tangle and interfere with proper roof operations

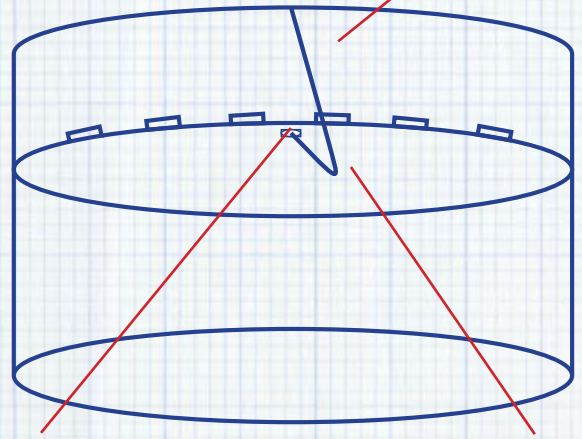


Loose cable can create a high-impedance path for current, increasing the risk for arcing

Cable can tangle and break, eliminating the electrical connection

## BENEFITS OF MOVEABLE ARM

UV and thermal protected cable



Stainless steel base, light glass reinforced plastic arm keeps cable from tangling

Gravity powered design, no spring loaded parts or moving reels

## About 30% of tank fire and explosion incidents are due to lightning.

EFR tanks are particularly vulnerable to the effects of lightning because of the isolated floating roof. A direct or nearby lightning strike will cause a difference in potential between the floating roof and the tank shell, which, if not properly bonded can be an ignition source.



## LIGHTNING MASTER

is a full service, full spectrum static solutions and lightning and transient protection company **servicing the oil and gas and chemical industries since 1984**. Our complete line of products and systems is backed by our worldwide support and customer service. Lightning Master is recognized internationally as the industry leader in lightning and static protection.

### Unparalleled Customer Service

Site Survey and Evaluation • System Design  
Products • Customer Service

### COMMITTEE PARTICIPATION

NFPA 780

API 545

NFPA 781

IEEE 1576