

**To:** Daniel Customers  
Global Sales  
Service Channels

**Date:** 06-09-06

**From:** Daniel Safety Committee

**Subject:** Gas Ultrasonic Lifting Notice

**Bulletin #:** DAN-SAFE-060906-1

This notice is to inform customers of an issue related to the safe lifting of Daniel gas ultrasonic meters. Customers should be cautious of lifting Daniel's SeniorSonic™ or JuniorSonic™ ultrasonic meters with eye bolts. Lifting Daniel gas ultrasonic meters incorrectly can result in death or serious injury and/or damage to the equipment.

## **Customers with Daniel Ultrasonic Meters with Original Equipment Threaded Eyebolts**

**WARNING DEATH OR SERIOUS INJURY OR EQUIPMENT DAMAGE MAY OCCUR**

For Daniel Ultrasonic meters with threaded eyebolts, they may be safely used to lift the meter if ALL of the following conditions are met.

- They have been inspected and show no signs of corrosion, scarring, or damage (including bending)
- They have not been left in the meter after installation and exposed to the environment
- A spread bar is used during lifting to eliminate angular loading

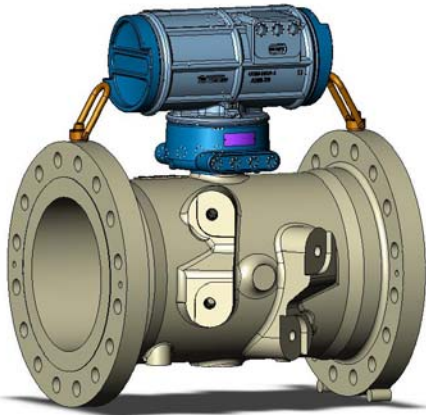
If any of the conditions described above can not be met, the operator must remove, destroy, and discard the "Eye Bolt" immediately and use slings around the meter body as outlined in Appendix A in conjunction with company approved hoisting and rigging procedures or the **DOE-STD-1090-2004 HOISTING AND RIGGING** standard if such company standards do not exist.

## **Customers with Daniel JuniorSonic Meters with Eyebolts welded to flanges**

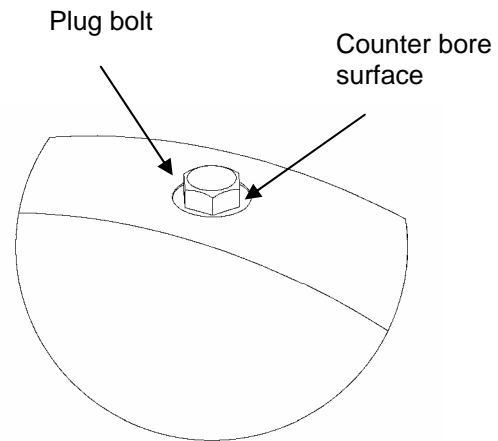
### **WARNING DEATH OR SERIOUS INJURY OR EQUIPMENT DAMAGE MAY OCCUR**

Customers with JuniorSonic meters with welded eyebolts, must not use them for lifting the meter. Welded eyebolts are only adequate for strapping the meter down during shipping.

It must be noted that to date there have been no reports that an eyebolt has broken on a Daniel ultrasonic meter during lifting. There have been reports of bent eyebolts which has led to the distribution of this notice. Also, effective July 1, 2006, and starting with serial number 06-270001 all gas ultrasonic meters will be shipped with mounting holes for Safety Engineered Swivel Hoist rings rather than eye bolts in order to provide a safer process for lifting Daniel ultrasonic meters and to provide the highest level of safety to our customers.



**Figure 1: Example of a 12" meter body with hoist rings**



**Figure 2: – Meter End Flange with Tapped Hole with counter bore for Hoist Ring**

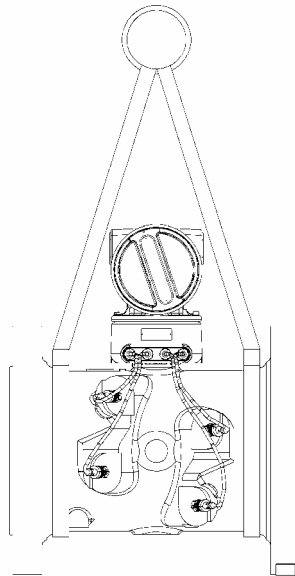
## Appendix A - Using appropriately rated lifting Slings on Daniel Ultrasonic Meters

The following instructions are intended to provide general guidelines for proper slinging of a Daniel Ultrasonic meter by itself. They are intended to be followed in addition to your company's standards or the **DOE-STD-1090-2004 HOISTING AND RIGGING** standard if such company standards do not exist.

### Safety Precautions Using appropriate rated lifting Slings on Daniel Ultrasonic Meters

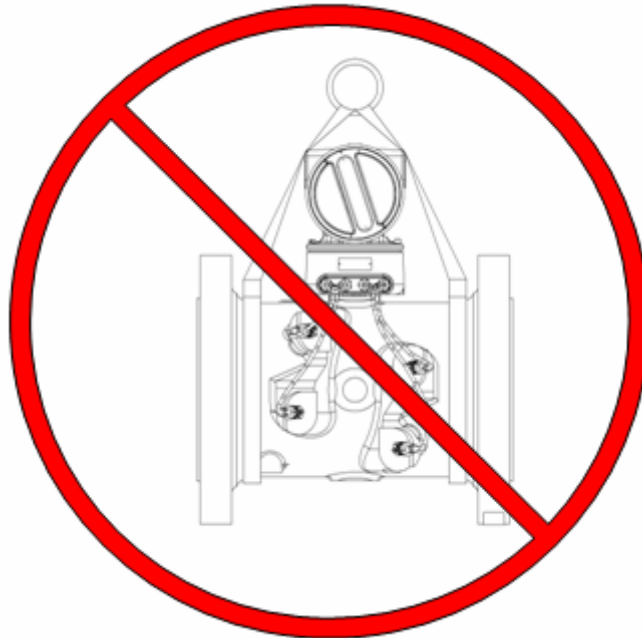
Read and follow the Safety Precautions listed below:

1. Meters must only be lifted by personnel properly trained in the safe practices of rigging and lifting.
2. NEVER attempt to lift the meter by wrapping slings around the electronics.
3. NEVER attempt to lift the meter using only one sling around the meter. Always use two slings wrapped around each end of the body as shown below. A choker style sling is recommended.



4. Visually inspect the slings prior to use for any signs of abrasion or other damage. Refer to the sling manufacturer's procedures for proper inspection of the particular sling you are using.
5. Only use slings with ratings that exceed the weight to be lifted. Reference your company's standards for safety factors that must be included when calculating the load rating.
6. NEVER allow the slings to contact the electronics enclosure or transducer cabling. Damage to the enclosure or cabling may occur. If the slings do come in contact with the electronic enclosure then remove the two bolts holding the enclosure to its base and temporarily remove the head from the meter during the lifting operation. You will need to unplug the cable from J3 on the Acquisition Module. Two screws hold this cable in place.

Once the lifting operation is complete, reattach and secure the electronics cable to J3 on the Acquisition Module, return the electronics enclosure to its original position, replace the bolts, and secure the enclosure in place. Lifting the meter with the upper enclosure installed but with out the bolts installed, may cause the electronics to fall and cause personal injury or electronics damage.



7. NEVER apply shock loads to the meter. Always lift the meter gradually. If shock loading ever occurs, the slings must be inspected per manufacturer's procedures prior to being placed in any further service.