

# THE **SAFEST COUPLING** EVER MADE



**THIS HAMMER UNION IS A  
RECORDABLE WAITING TO  
HAPPEN!**

Operators using hammers and  
blunt objects to remove  
Hammer Unions is a recordable  
waiting to happen!

**Why RISK your  
0 Recordables on a \$100  
part!**

**THERE IS A SAFER OPTION!**

**PROTECT your zero Recordables  
with Mechaneer Industrial's  
Push Apart Coupling, the  
SAFEST COUPLING available  
today!**



Safety Manager thinking about Hammer Unions

**MECHANEER INDUSTRIAL  
has your**

**SOLUTION**

**to**

**KEEP 0 from BECOMING 1**



**Don't let outdated technology  
COST YOU a Recordable Injury!**

**Call or Text us today!**

**Chip Brown, Sales Engineer**

**Call or Text: 214-244-1483**

**WWW.MECHANEERINDUSTRIAL.COM**

# THE **SAFEST COUPLING** EVER MADE

**COMPLETELY COMPATIBLE TO  
REPLACE YOUR EXISTING CGA  
HAMMER UNION**

**A DIRECT REPLACEMENT!**

**JUST REMOVE THE EXISTING HAMMER  
UNION AND INSTALL THE SAFEST UNION**

**EVER MADE; EASY!**

**IN JUST 10 MINUTES YOUR OPERATION  
BECAME 100% SAFER**



MI15 LIN CGA fitting after 18 month long term test

## **OPERATION IS SIMPLE!**

### **Connection Instructions:**

- 1) Before the coupling is installed onto the Fixed End of the tank or vehicle assembly, the coupling must be completely closed with jack bolt 1 and jack bolt2 tightened so the coupling is in the completely closed position.
- 2) **Similar to a hammer union**, the operator installs the coupling onto the fixed end and tightens the coupling by hand.
- 3) **VERY DIFFERENT FROM THE HAMMER UNION**, the operator uses the specifically designed wrench to tighten the fitting completely. **NO HAMMER REQUIRED TO TIGHTEN THE UNION!**

### **Disconnection Instructions:**

- 1) **Similar to the hammer union**, the operator confirms that the flow is stopped, the hose is drained, and the pressure is released.
- 2) **VERY DIFFERENT FROM THE HAMMER UNION**, instead of banging on the union and system with a hammer, the operator simply loosens bolt 1 by turning it two (2) rotations in the CCW or loosening direction.
- 3) The operator loosens bolt 2 by turning it two (2) rotations in the CCW or loosening direction.
- 4) The operator confirms the coupling is opening by observing by checking separation along the "split line".
- 5) The operator uses the wrench to loosen the coupling. By applying **ONLY 20 ft-bs** of torque force (about what it takes to loosen the top of a jar) to loosen the coupling!! Because of the patented design, **No hammer should ever be required to loosen the coupling!!**
- 6) Once the coupling is loosened with the wrench, the coupling is simply removed by hand, the bolts are tightened, and it is ready for the next operation.

**SIMPLE! SAFE!**

## **RELIABILITY THROUGH LONG TERM TESTING**

**18 MONTHS AND NO ISSUES!** During our long term testing, we use actual customer sites with real operators. We allow all the regular abuse to occur and then we study and improve the product.

### **FAQs**

- Since the bolts are steel, and the coupling is a softer bronze alloy, does excessive wear occur between the threads?
  - No. 99% of the rotation is loose so maximum force on the threads is applied for such a small angle of contact that no significant wear occurs. In 18 months of daily use, the threads (and the coupling) performed the same on day 547 as they did on day one of the testing.
- Is there a risk of the bolt heads breaking off if, and when, the coupling is hit with a hammer?
  - No. Due to a new operator at the site, for more than 3 months during our long term testing, the coupling was tightened and loosened with a hammer. We studied the bolt and found no signs of failure. The same bolts were used for the entire 18 month test.

**Don't let outdated technology COST YOU a  
Recordable Injury! Call or Text TODAY!**

- Chip Brown, Sales Engineer
- Call or Text: 214-244-1483
- [WWW.MECHANEERINDUSTRIAL.COM](http://WWW.MECHANEERINDUSTRIAL.COM)