

# Mikey's Quick Tips

# Quick review of the previous weeks

# Filling High Pressure Cylinders

## **When do you push the “Stop Button”?**

**If using the pressure / temperature method, then you stop when the pressure catches up to the temperature on the filling chart.**

**Be sure you are using the correct column on the P/T filling chart. Watch for the cylinder service pressure, standard pressure, and 10% overfilling (+ mark)**

# Filling High Pressure Cylinders

## **When do you push the “Stop Button”?**

**If filling by weight on a gravimetric scale, then it is easy, when you reach the proper grams per product per the filling chart.**

**This is so simple and easy, why even Mikey can do it.**

# **Filling Small CO2 Cylinders**

**Ever have a 5 LB or smaller CO2 cylinder pop the safety?**

**Almost always it is because it was overfilled.**

# Filling Small CO2 Cylinders

Are you filling CO2 cylinders on scales that you fill your liquid containers on?

Those are probably 1000 to 1500-pound capacity scales.

Check the accuracy tolerance on your scale.

Think about it! If that 1000-pound scale has an accuracy of  $\frac{1}{4}$  % of full scale, then that is plus or minus 2.5 pounds!

Even if it was plus or minus 1 pound (1/10 %) you could still be overfilling your 5 lb. cylinder by 1 pound or 20%.

You may think you are putting in 5 lbs. but it could be anything from 4 to 6 lbs.

# Filling Small CO2 Cylinders

## How do I fix this?

- Get a smaller platform scale and put this on a roll around cart. Make sure the scale is certifiable and adjustable so you can have it checked as needed by the local laws for scales.
- Use a smaller capacity scale and they read +/- .01 lbs.
- No more under or overfilling and you get the benefit of the employee not having to bend over to handle and fill these smaller cylinders. No back strains.

# Visual Inspections

**Arc burns...out of here**





# Visual Inspection

## Bulges...out of here



# Visual Inspections

## Oil and Grease



# Visual Inspection

**Hydrocarbons / oil and grease on valves**



# Cylinder Warnings



# Cylinder Warnings



# To Fill it and Use it

**Must say**

**ICC**

**DOT**

**or**

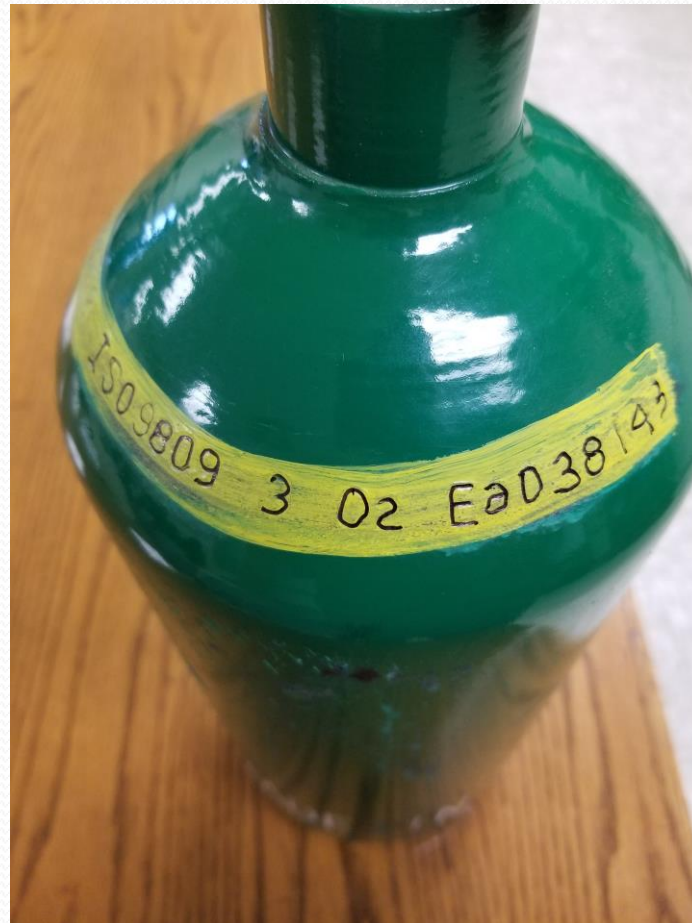
**UN**



# Cylinder Warnings



# Cylinder Warnings





# Approved UN Cylinder



# Approved UN Cylinder Markings



# Cylinder Warnings





# Cylinder Warnings



# See through the holes!



# Hammer test all steel cylinders

# Make sure they are there!



# Heat Damage

## Steel cylinders

- Heat damage to paint or coating
  - Smudge = OK
  - Discolored = OK
  - Blistered = OK
  - Burned away = Scrap

## Aluminum cylinders

- 350 degrees
- Change of color on the heat indicating coating, melted plastic parts or decals



# LPG Filling

- **Tare Weight + Product Weight + Filling Assembly = Full Cylinder Scale Weight**

# LPG Filling

- **Keep the Genie in the bottle!!**
- **Don't allow the employee to use the "spitter" valve**
- **You can't have a fire without the fuel**

# Contact Info

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