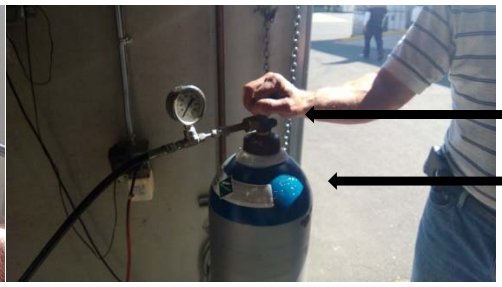
VAP-X™ Field Instructions

- Step 1-Fill the VAP-X™ cylinder with CO_2
  - Place the VAP-X™ cylinder on a scale and remove the bonnet

  - Make sure that both valves are turned off
  - Make sure that the CO_2 tank is an eduction tank (Has a dip tube designed to administer liquid CO_2 only)
    - Remove the valve cap from the gas side of the valve and connect the transfer line to the CO_2 tank and then the gas side of the VAP-X™ cylinder



    - Turn on the gas side valve on the VAP-X™ cylinder (make sure that the liquid side valve is in the off position!!)

- Turn on the CO_2 tank and begin transferring the CO_2 to the recommended dosage

- Once filled, turn off the CO_2 tank and then turn off the VAP-X™ gas side valve
- Slowly unhook the line from the VAP-X™ cylinder to release the trapped CO_2 from the line

- Disconnect the line from the CO_2 and replace the valve caps and bonnets on both cylinders

- Step 3-Administer the product
  - Make sure that the cylinder is warm (ambient temperature)
    - Place the VAP-X™ cylinder in the designated area
  - Remove the bonnet and connect the nozzle manifold or introduction line to the liquid side valve, removing the valve cap from that side only

  - Don PPE

- Open the liquid side valve and begin administering the product. The flow should be even with no dripping and no sputtering. If sputtering occurs, the cylinder may not be warm enough for even dispersal.

- Leave the area
- Once the cylinder is empty, make sure both valves are closed and disconnect the introduction manifold. Then replace the valve caps and bonnet
    - Note: It takes approximately 5-45 minutes to empty the cylinder completely, depending on the volume of the VAP-X™ in the cylinder, the nozzle orifice size, or the amount of nozzles connected by introduction lines to the cylinder.

One 50 lb. CO_2 cylinder will give you approximately 30 lbs. of liquid transferred, and the CO2 transferred has to be in a liquid state to minimize the chance of fallout.