DISPENSING LIQUID NITROGEN

When filling glass Dewars, use caution. When they break they implode violently. Wear face & eye protection!

1. Intro students should not be sent to obtain liquid nitrogen without supervision.
2. Just because there is pressure indicated on the gauge, that doesn't mean there is liquid in the tank. I repeat, the pressure gauge does not reflect the amount of liquid present.
3. It is recommended that the fritted metal 'phase separator' be attached to the end of the delivery tube. This reduces splatter.
4. It is recommended that gloves be worn during transfer. There will be splatter, and while it isn't likely to cause frost bite, you will feel it.
5. Fill your container slowly at first. Until it cools, the liquid will boil violently.
6. If you are filling multiple containers, it is recommended that room temperature containers be filled by pouring from an already cold container. Have the receiving container on a table or the floor and watch for excessive boiling while pouring. Refilling the already cold container will involve less boiling and reduce the risk of dropping it.
7. There are 2 valves on the 25L liquid nitrogen tank. One is for dispensing liquid nitrogen and one is for venting. Since there have been mix ups, I have removed the vent valve handle since it is only used during refilling the tank.
8. Be sure to close the dispensing valve completely when finished.