

## LIQUID NITROGEN TANK HANDLING

HMS microfluidics/microfabrication facility has one high pressure liquid nitrogen tank which supplies the nitrogen for some equipment normal operation.

In case the liquid nitrogen tank is malfunctioning and requires to be shut down or replaced make sure to:

1. Wear safety glasses and face shield
2. Wear Cryogenic gloves. They should be loose fitting.
3. Coverall and toed-cover shoes must be worn.

### Procedure For Handling Liquid Nitrogen Tank

The correct and normal conditions of the liquid nitrogen tank should be 250-350psi pressure visible on the pressure gauge (see figure 1). If for some reason the pressure is above or lower that range, please follow next steps.

- **Too high pressure - tank constantly hissing**
  - o Make sure the valve with label “gas valve” is fully opened and connected to the system
  - o Close the pressure building valve until the tanks stop hissing.
  - o Open the pressure building valve only a half turn.
- **Too low pressure**
  - o Close the valve with the label “gas valve”
  - o Open the back up nitrogen gas tanks connected to the system.

