Sealing NMR Tubes

Fit an NMR tube with a small white septum (fitting around the outside of the tube). Put the tube under vacuum and flame dry, leaving under vacuum until cooled. Place NMR tube under argon and put into a -78 °C bath. Inject the appropriate components for your sample. Turn any open port to the off position (horizontal) except for your tube (leave under argon). Close the main argon valve completely. Slowly open the valve that connects the vacuum and argon parts of the Schlenk line until your Hg reaches approximately 27-30 mm Hg (this puts the sample under partial vacuum). Carefully seal the tube using the torch and vortex the sample quickly (but gently). Remove the remaining portion of the tube/septum from the needle. Reopen main argon valve and any ports that were closed prior to sealing the tube. Watch someone before attempting to handle the torch or seal tubes yourself.