

Discussion notes: 10/27/16

This meeting, we discussed how to mount the system. We talked about how we wanted to mount the system in an 8020 aluminum frame instead of the cart idea. The reason being the cart would be expensive, so we are going to build a 2ft x 2ft x 2ft cube of aluminum that will enclose our entire system. We decided that we want to mount the system horizontally so that the poppets do not fall out when we take the valve manifold out. The vibration of the solenoid valves should not affect the overall system as we plan to mount them perpendicular to the system and rubber feet will also be used to help with that. We will attach the valve manifold to the system using bolts and shoulder screws/studs.

We found that we can reuse the solenoid valves from last year as they will be able to run at the frequency we require. We will need to make a new poppet valve manifold because the valve seats from the old version are too large for our design. We will also need to make an attachment to the other side valves that will catch the flow and funnel it into our pressure tank. We will decide on an air pressure tank that we will buy.