Trainer Lab #7

Extend and Retract Single Acting Cylinder



Trainer Lab Instructions:

Steps:

1. Make sure you are wearing safety glasses.
2. Make sure that the orange shut off valve is shut off before you start hooking up any components.
3. Make sure that 2 of the 3 ports on the silver manifold are plugged.
4. Take a hose from the silver manifold, and run it to the “P” port on the Manually Operated Valve.
5. Take a 12” hose (approximate length) and run it from the “A” port on the Manually Operated Valve to the Rod side of the “ Small Double Acting Cylinder”
6. Take a 12” hose (approximate length) and run it from the “B” port on the Manually Operated Valve to one of the ports on a “TEE”, then take 2 more 12” hoses and run one from one of the other ports on the “TEE”, to the Non-Rod side of “Small Double Acting Cylinder” take the other hose and attach it to the other port on the “TEE” and run it to the Non-Rod side of the “Small Single Acting Cylinder” ( See Video if you need further explanation)
7. Push the Manually Operated Valve to the left.
8. Video yourself doing Steps: 9-11 and submit.
9. Turn on the orange shut off valve and set the “FR” unit to 60 PSI. Check to make sure that your cylinder is retracted.
10. Shift the Manually Operated Valve back and forth and check to make sure that the cylinders are extending and retracting together.
11. Turn off the orange shut off valve, cycle the Manually operated valve back and forth a couple of times so that there is no stored air in the system. Un-hook the hoses and put everything away.