Trainer Lab # 9 Actuator Speed, Resistance and Flow.



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 8” hose (approximate length) and run it from the “A” port on the Manually Operated Valve to the inline pressure gauge, ( make sure you put the hose reducers in the gauge) then take a 8” hose ( approximate length) and run it to the rod side of the “Large Double Single Acting Cylinder”
6. Take an 8” hose (approximate length) and run it from the “B” port on the Manually Operated Valve to the inline pressure gauge and then run it to the non-rod side of the Large Double acting cylinder. (See Video if you need further explanation)
7. Push the Manually Operated Valve to the left or to the “B” side of the Manually Operated Valve.
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. Show the pressures on the “FR” pressure gauge, and the pressure on the rod side pressure gauge. They both should be reading the same.
10. Shift the Manually Operated Valve to the right side or to the “A” port, watch the gauges.
11. Shift the Manually Operated Valve so that the cylinder is completely retracted.
12. Turn the “FR” unit so that it shows no pressure. Slowly turn up the pressure so that cylinder extends slowly.
13. Retract the cylinder
14. Turn the “FR” unit to 60 psi, watch how the cylinder extends quicker.
15. 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.