Trainer Lab # 10 Controlling Actuator Speed



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 needle valve (Make sure that you connect the hose to the arrow point side of the needle valve see picture below) then take a 8” hose (approximate length) and run it from the other side of the needle valve to the non-rod side of the “Medium Double Acting Cylinder”
6. Take a 16” hose (approximate length) and run it from the “B” port on the Manually Operated Valve and run it to the rod side of the medium double acting cylinder.
7. Make sure that the needle valve is opened all the way (counter-clockwise)
8. Push the Manually Operated Valve to the right or to the “B” side of the Manually Operated Valve.
9. Video yourself doing Steps: and submit.
10. Turn on the orange shut off valve and set the “FR” unit to 60 PSI.
11. Shift the Manually Operated Valve to the right side or to the “A” port.
12. Shut the needle valve completely closed clockwise.
13. Shift the Manually Operated Valve to the “B” port, notice the cylinder will not retract, now slowly open the needle valve, notice how the cylinder will retract slowly, the more you open it the faster the cylinder will retract.
14. Repeat steps 11-13 a couple of times.
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.

Close up Needle Valve:

