Trainer Lab # 11 Controlling Actuator Speed with Quick Exhaust Valve



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 an 8” hose (approximate length) and run it from the “A” port on the Manually Operated Valve to the inline quick exhaust valve (Make sure that you connect the hose to the non-arrow point side of the quick exhaust valve) then take a 2” hose (approximate length) and run it from the other side of the quick exhaust valve to the non-rod side of the “Large 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 large double acting cylinder.
7. Push the Manually Operated Valve to the right or to the “B” side of the Manually Operated Valve.
8. Video yourself doing the following steps:
9. Turn on the orange shut off valve and set the “FR” unit to 60 PSI.
10. Shift the Manually Operated Valve to the right side or to the “B” port extend the cylinder.
11. Shift the Manually Operated Valve to the left side or the “A” port and retract the cylinder. Watch how quickly the cylinder retracts.
12. 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.