(Control laboratory)

Experiment No. ٠٠(٥)

(Electro pneumatic trainer (using a cylinder))

Prepared by
(Eng. Aceel Talib Hussain)

Exp.No. (٥):- Electro pneumatic trainer (using a cylinder).

Unit objective:-

After completing this unit, you will be able to understand the use of push buttes and the use of cylinders.

Wiring sequence:-

PS+	CDP ٢٤v
PS-	CDP COM (٠v)
CDP ٢٤ V	Simulation + Extension Panel RL-١ COM
CDP COM (٠v)	Simulation + Extension Panel Com (٠v)
EDO/١	CDP CDO/١
Simulation Extension Panel COM (٠v)	CDP Com (٠v)
Simulation Extension Panel EDI/٥	CDP CDI/١
S (SELENOID)١ (+)	RL(relay) ١ NO
S (SELENOID)١ (-)	CDP Com (٠v)

Procedure:-

١- Make the connection as shown in the table above.

٢- Set FRL pressure to٣ bar.

٣- Connect the power supply.

٤- C١ (cylinder) get step out when you press the push button (EDI/٥)

٥- The C١ (cylinder) step in (get to its original position) when you release the push button (EDI/٥).

Class: ٤th Stage
Subject: Control Lab
Lecturer:Dr.Essam Zuhair,Eng.Aceel
Talib Hussain
E-mail: aceel.talib@mustaqbal-
college.edu.iq

Conclusion:-

In this experiment we have gone through the process of using a limit switch, with a push button. It shows that how we can push button switch to start and stop the cylinder.

Component requirement

١. EDI/٥(Push button)
٢. S١(٥/٢ way DC valve).

Discussion:-

- What is the voltage of power supply, CDP panel, and simulation and extension panel?
- Why do you use air compressor for this experiment? And what is the pressure needs to make the device work?
- What is (EDI/٥)? What its work?