FACULTY OF MECHANICAL ENGINEERING

PNEUMATIC AND HYDROLIC DRIVE SYSTEMS

SEMESTRAL PROJECT

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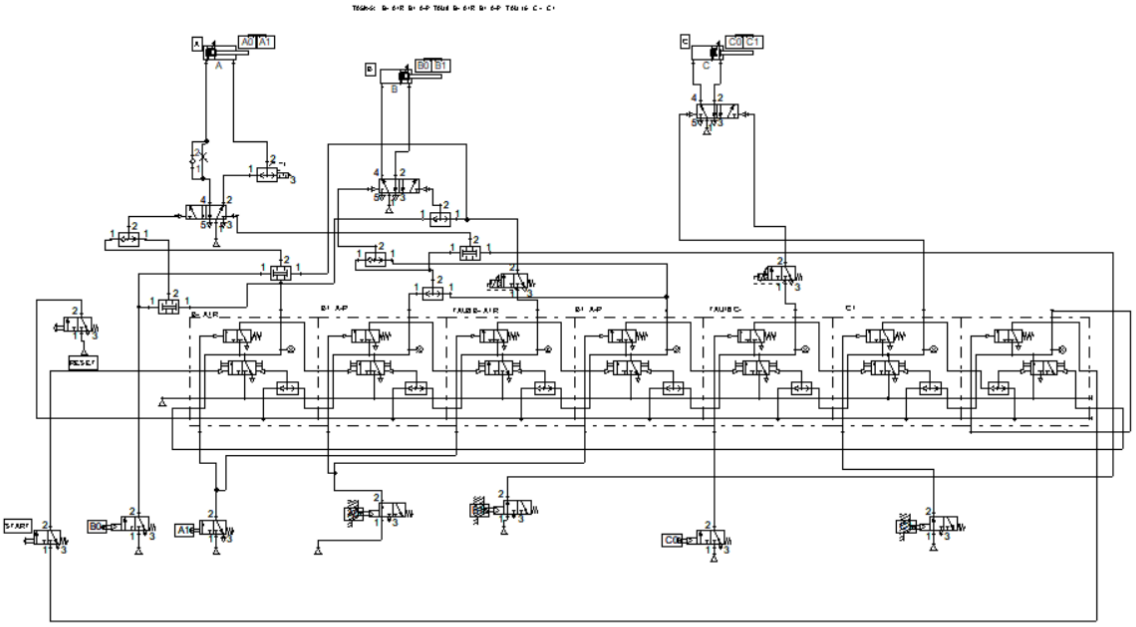
Task 5: B- A+R B+ A-P TAU8 B- A+R B+ A-P TAU16 C- C+



Marca	Valor de la magnitud	0 5 10 15 20 25 30 35 40
A	Desplazamiento mm	100 80 60 40 20
B	Desplazamiento mm	100 80 60 40 20
C	Desplazamiento mm	100 80 60 40 20

Parameters

Piston Diameter	20 mm
Operating Pressure Max.	4 bar
Max.Stroke Lenght	100 mm
Design	Piston Cylinder

Valve Function	And Gate
Operating Pressure	1…….10 bar

Valve Function	Or Gate
Operating Pressure	1…….10 bar

Valve Function	Time Delay
Pressure Range	2…….6 bar

Valve Function	Quick Exhaust Valve
Pressure Range	0,3…….10 bar

Valve Function	Push Button 3/2 way
Pressure Range	-0,9…….8 bar

Conclusion

This task was built upon a previous task of B- A+R B+ A-P TAU8 B- A+R B+ A-P TAU16 C- C+.The main mission is to combine memory blocks and time delay valve to trigger the next sequence in the task. To achieve the repeating elements of the sequence memory blocks were needed. Without these memory blocks, it would not have been possible to remove the time delay factor on the last part of the sequence. It is also noteworthy that an additional memory block was required every time the sequence was repeated. In this case, it was three additional memory blocks when compared to the previous task mentioned