

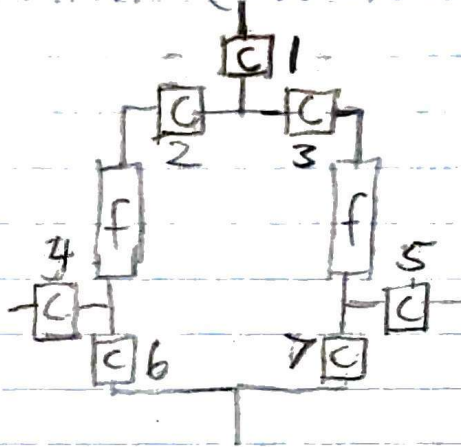
Solenoid Configurations

C: close

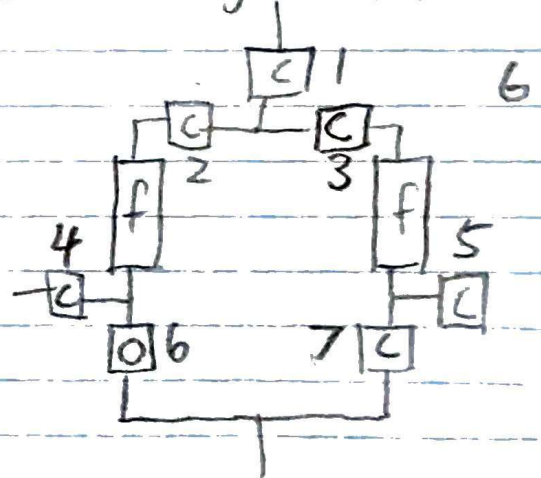
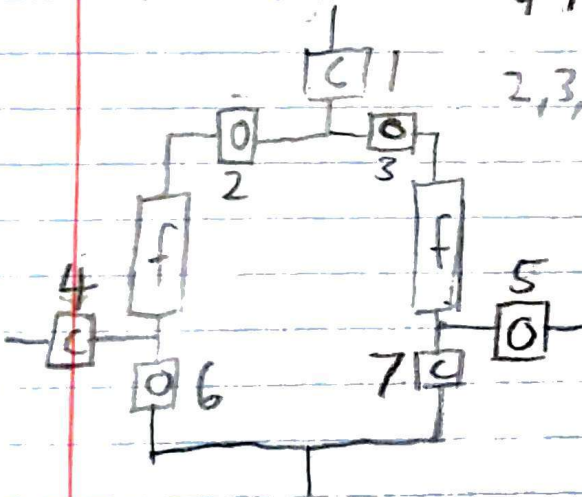
O: open

f: filter

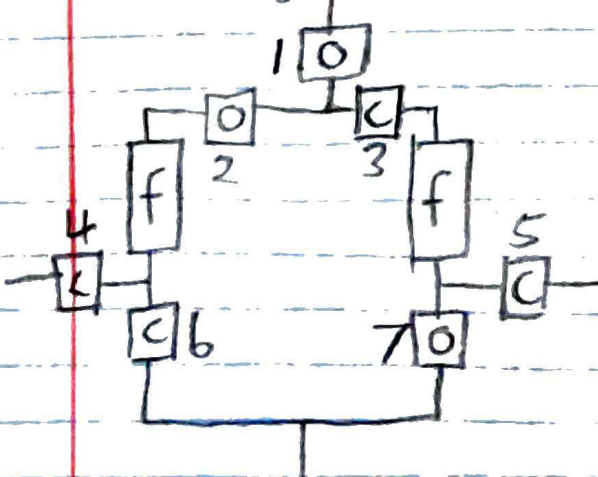
1st Configuration (closed/starting)



2nd Configuration (prep left) 3rd Configuration (fill left)

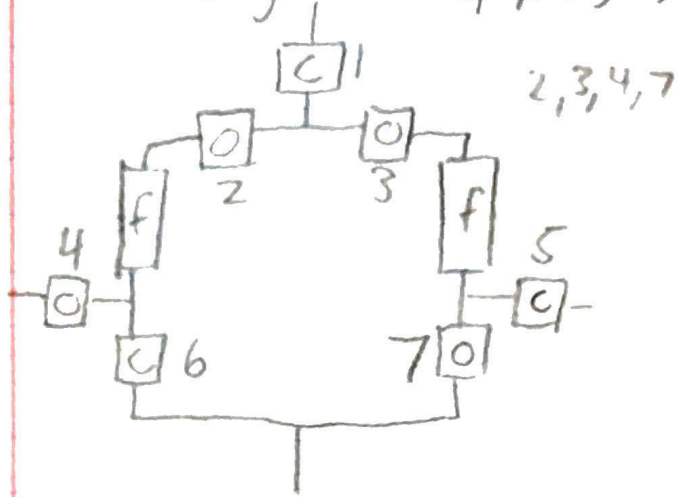


4th Configuration (pump left)

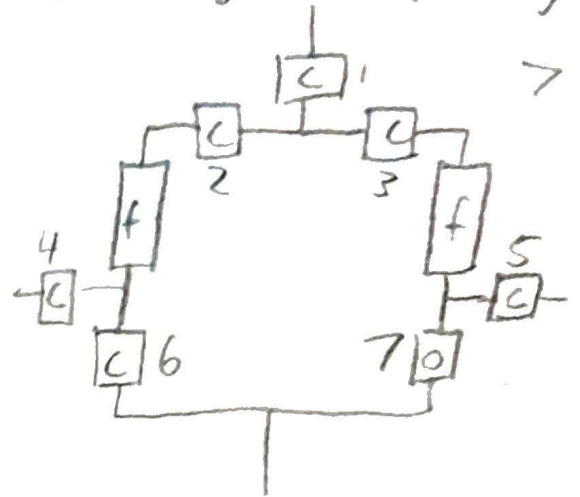


2

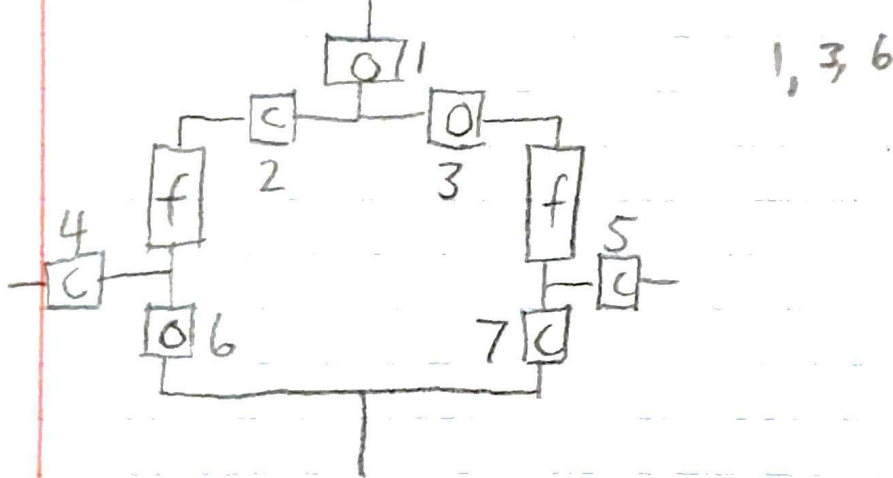
5th Configuration (pump right)



6th Configuration (fill right)



7th Configuration (pump right)



Configuration Procedures and Orders

1. When Off, in configuration 1.
2. When On, loops through, in order, 2nd to 7th configuration, and keeps repeating.

Solenoid Wiring Configurations

1

Config #	Solenoid #						
	1	2	3	4	5	6	7
1	C	C	C	C	C	C	C
2	C	O	O	C	O	O	C
3	C	C	C	C	C	O	C
4	O	O	C	C	C	C	O
5	C	O	O	O	C	C	O
6	C	C	C	C	C	C	O
7	O	C	O	C	C	O	C

Solenoids: (open = true, close = false, when sending current

2 \cap 3 \cap 5 \cap 6

6

1 \cap 2 \cap 7

2 \cap 3 \cap 4 \cap 7

7

1 \cap 3 \cap 6

4

1

3

4

1

3

← Count
for current
draws
.75A/1 count
at 12 V

Solenoid Control Groups (after adding everything)

6

7

1

2

3

4

5

No multiple groups, must use 7 control pins for solenoids.

Electrical Wiring

8x 10SQ045 Diodes

8x N-Channel Mosfet (IRF520N)

8x 1M Ω Resistor

