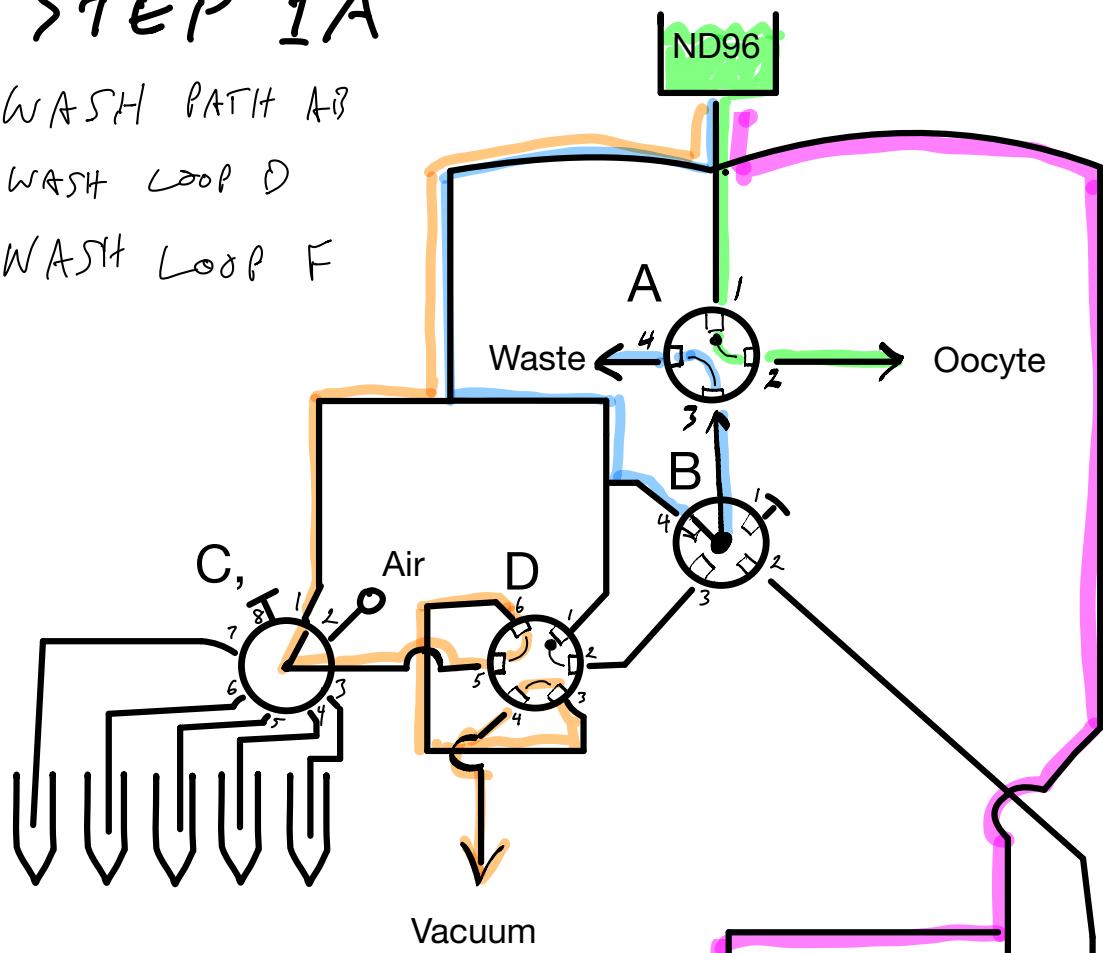


# STEP 1A

WASH PATH A?

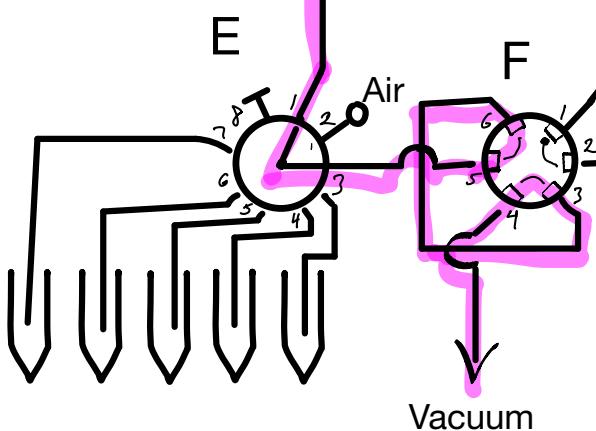
WASH LOOP D

WASH LOOP F



Valve positions

A	1
B	4
C	1
D	1
E	1
F	1

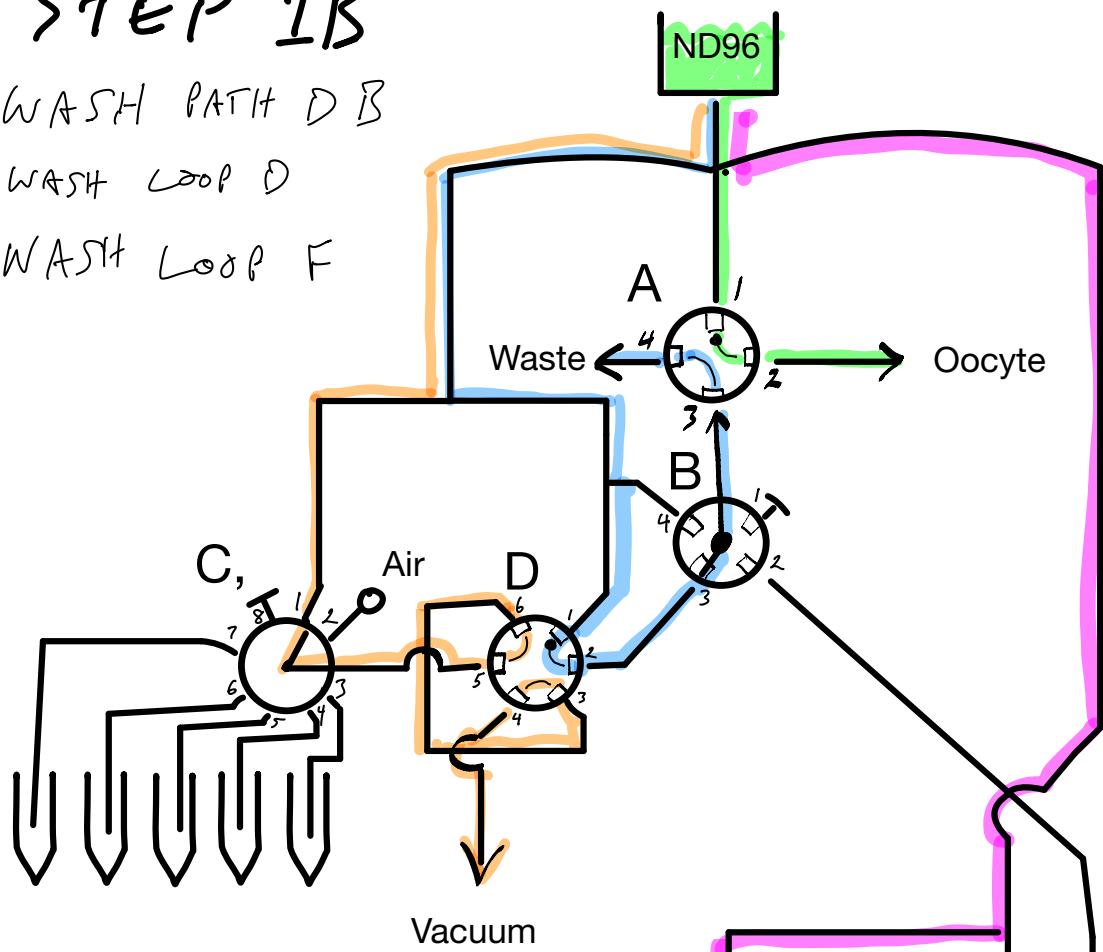


# STEP 1B

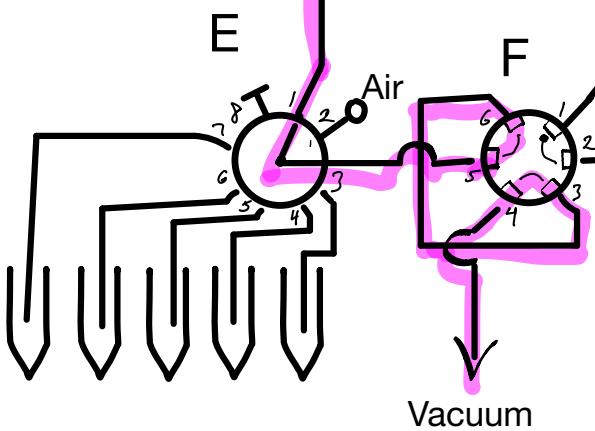
WASH PATH DB

WASH LOOP D

WASH LOOP F



→ A	1
B	3
C	1
D	1
E	1
F	1

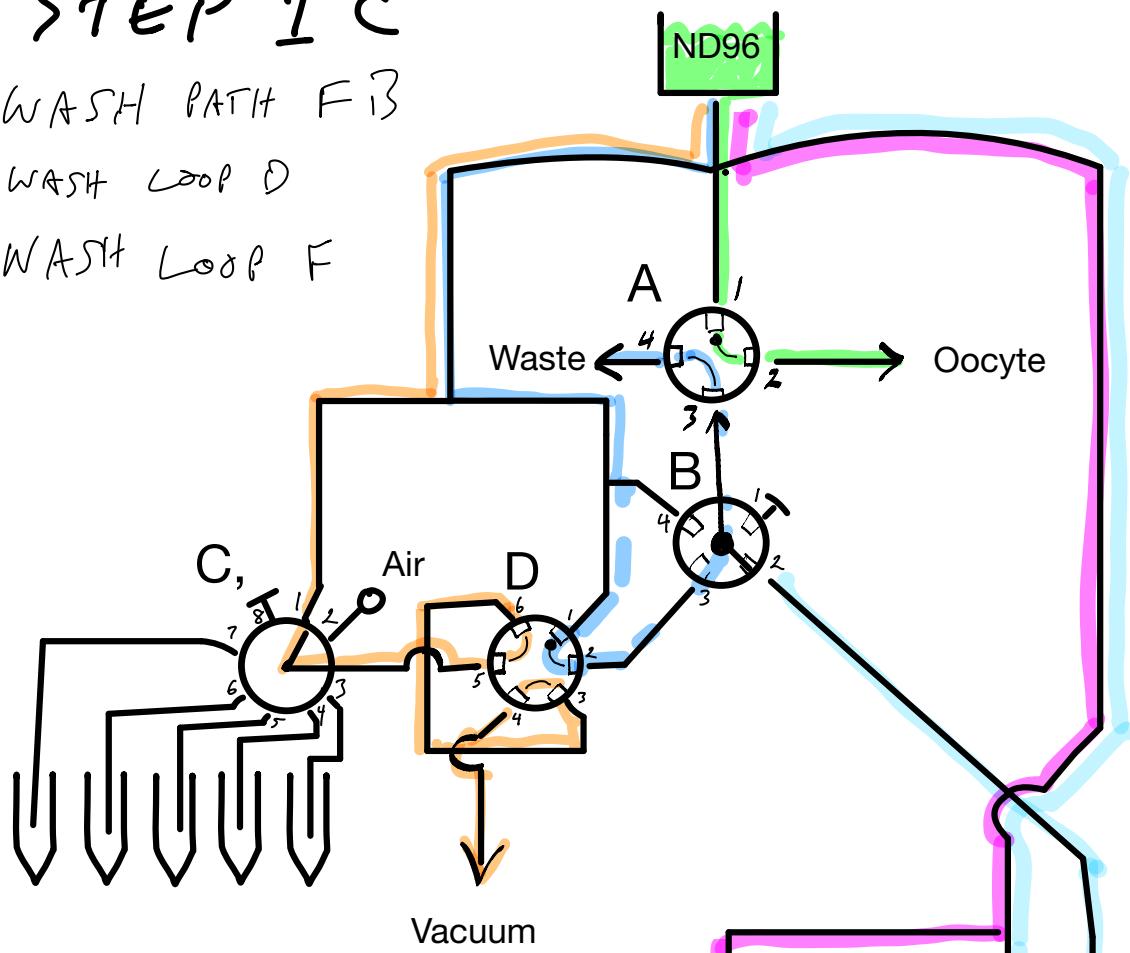


# STEP 1 C

WASH PATH F/B

WASH LOOP D

WASH LOOP F



Valve positions

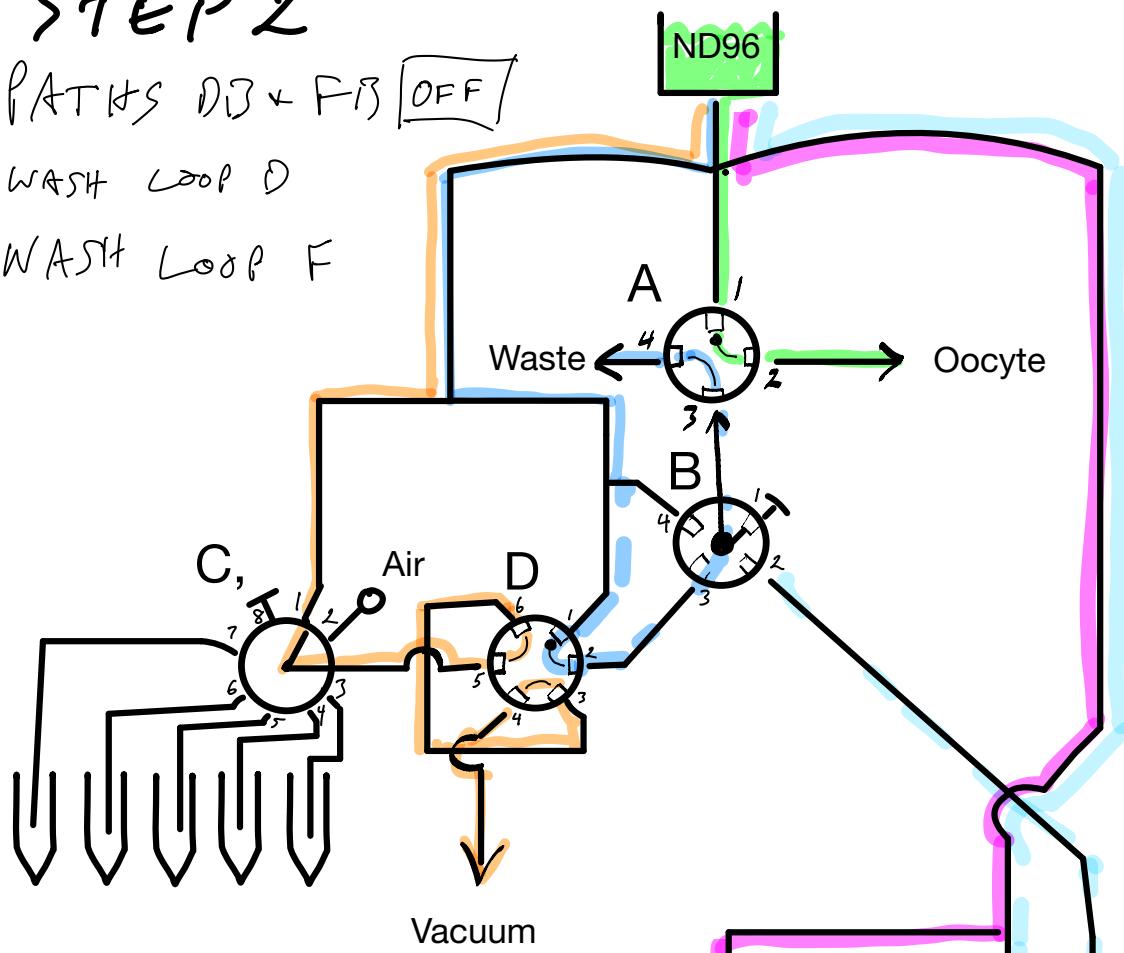
→ A	1
B	2
C	1
D	1
E	1
F	1

# STEP 2

PATHS D3 + F3 [OFF]

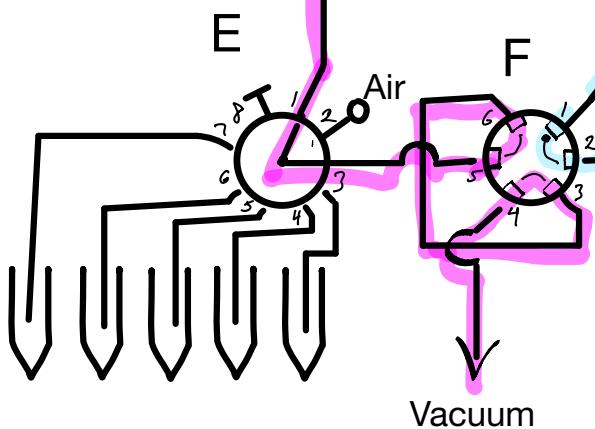
WASH Loop D

WASH Loop F



Valve positions

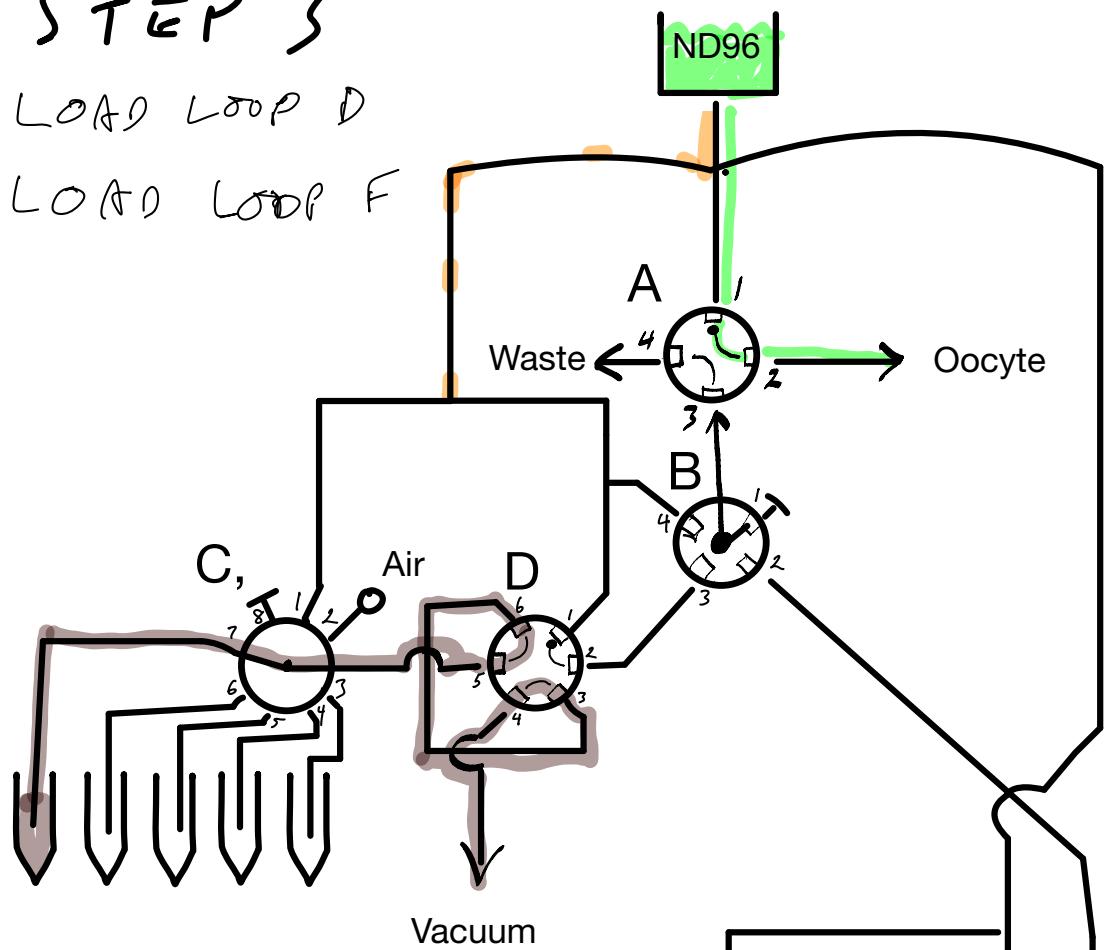
→ A	/
B	/
C	/
D	/
E	/
F	/



# STEP 3

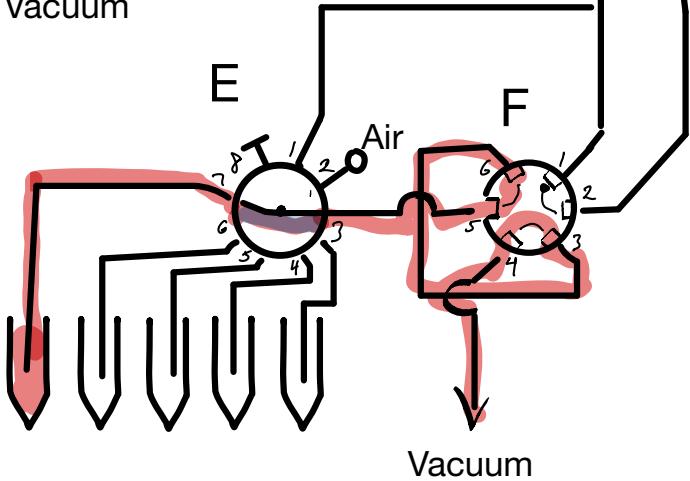
LOAD LOOP D

LOAD LOOP F



Valve positions

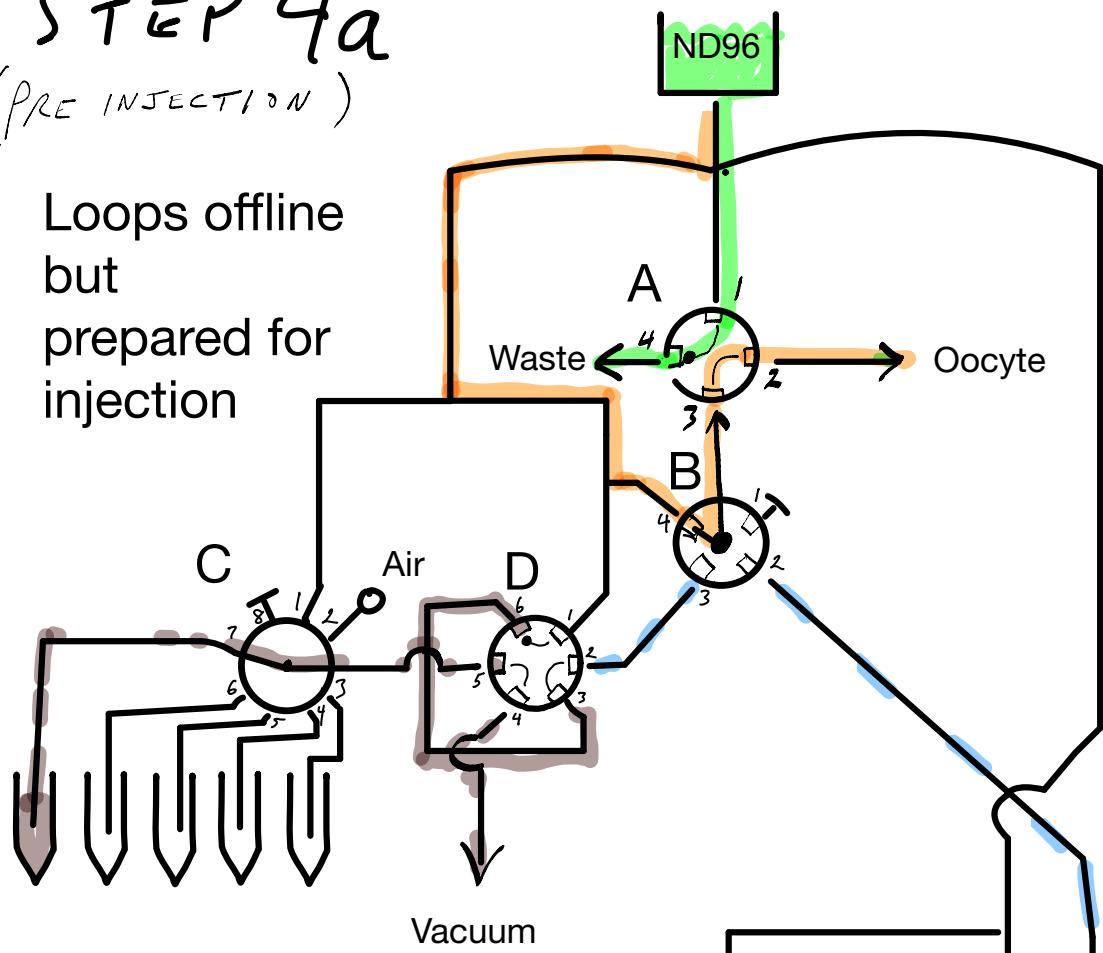
A	1
B	1
→ C	7
D	1
→ E	7
F	1



# STEP 4a

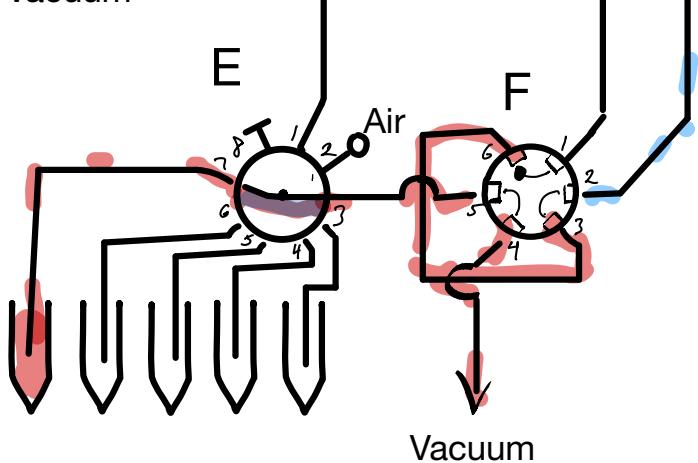
(PRE INJECTION)

Loops offline  
but  
prepared for  
injection



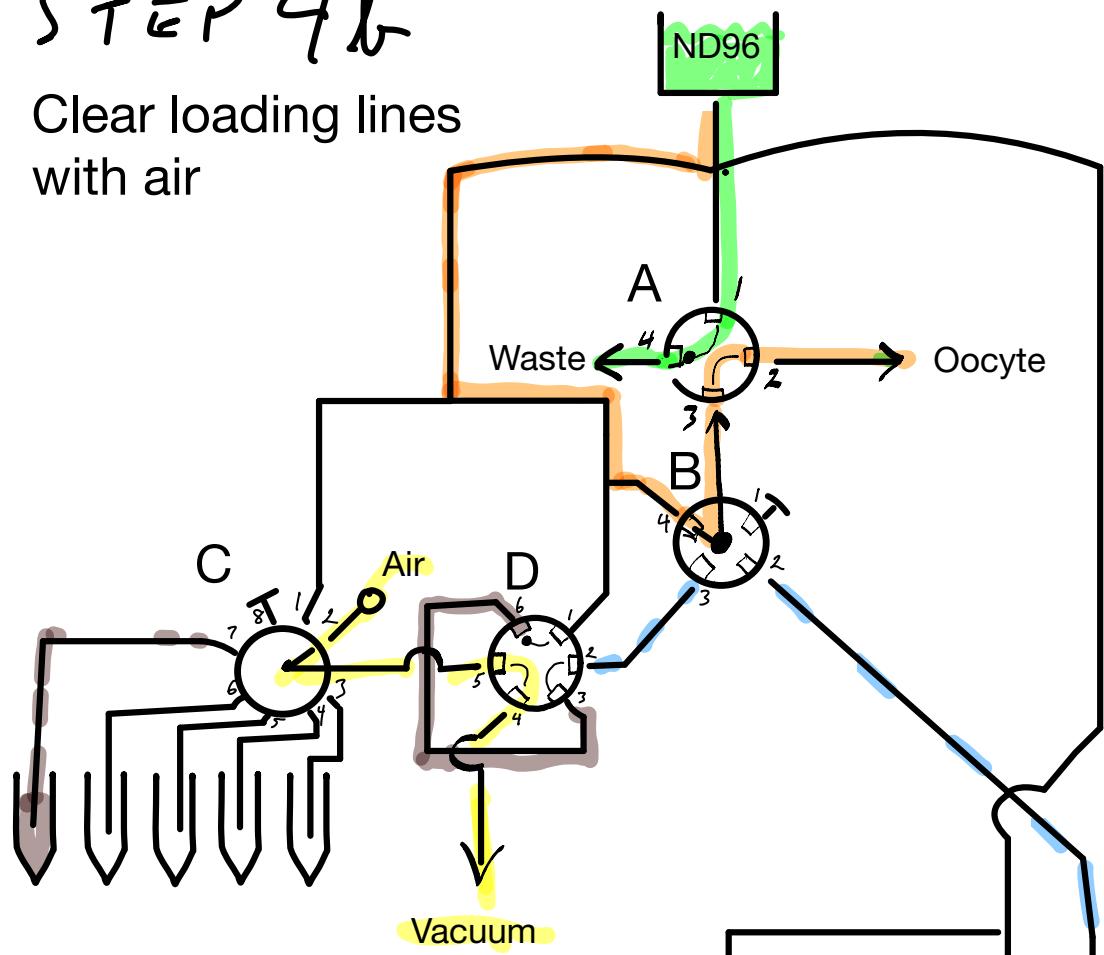
Valve positions

- A 4
- B 4
- C 7
- D 6
- E 7
- F 6



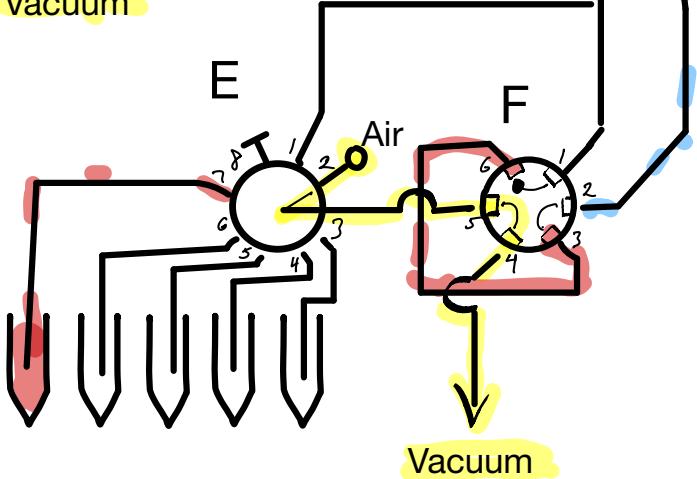
# STEP 4b

Clear loading lines  
with air



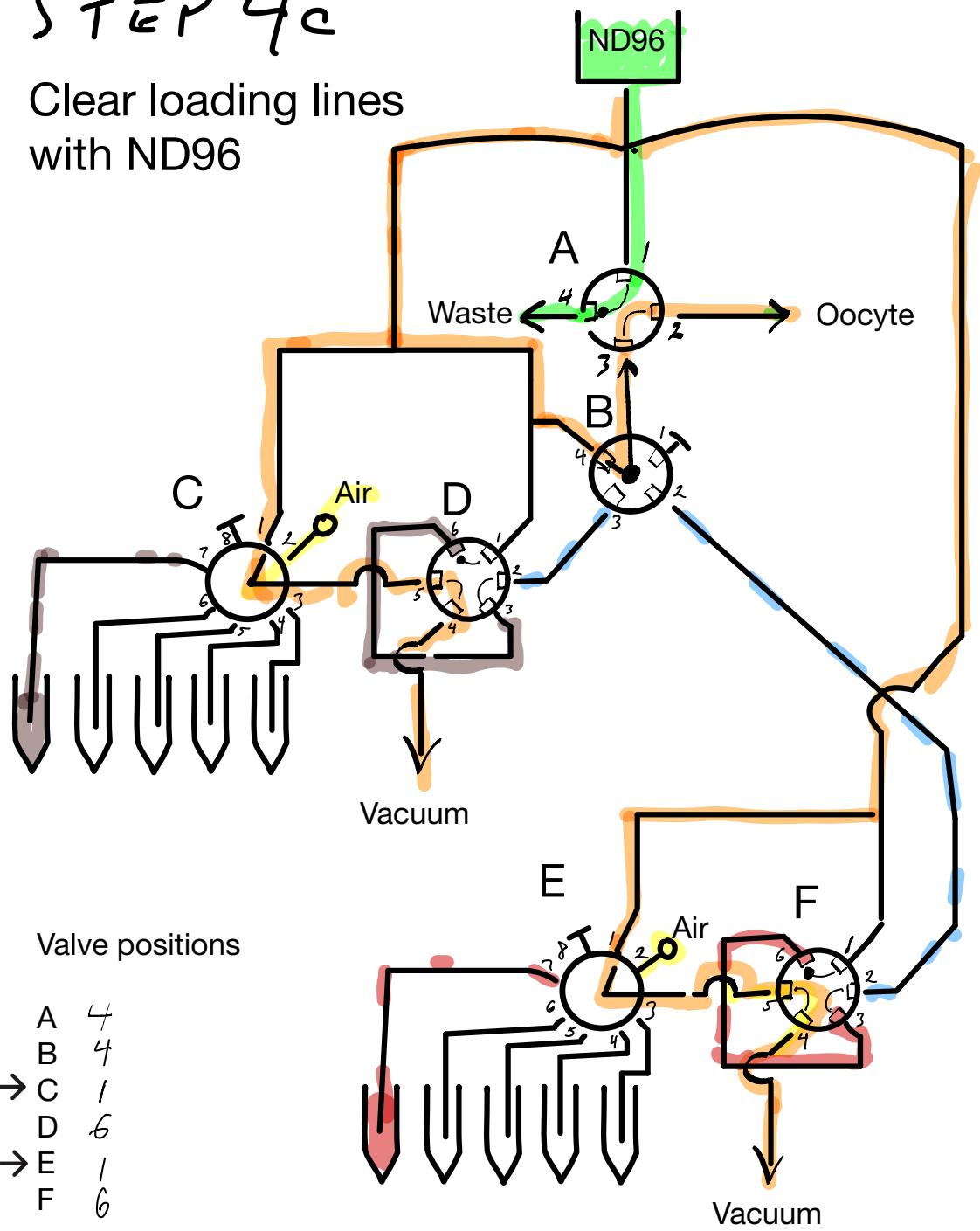
Valve positions

A	4
B	4
C	2
D	6
→ E	2
F	6



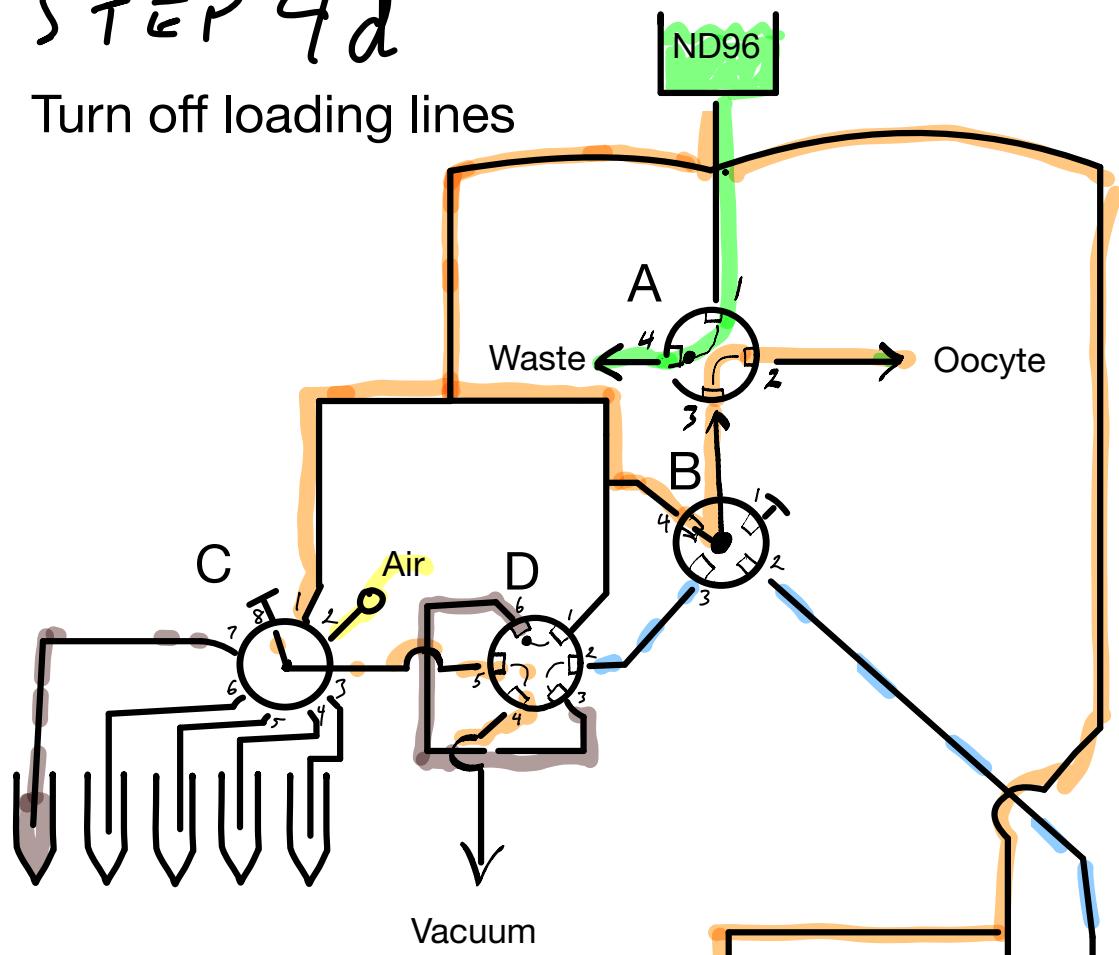
# STEP 4c

Clear loading lines  
with ND96



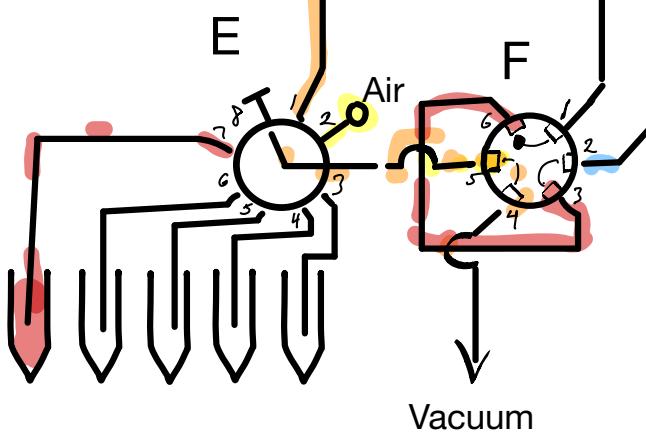
# STEP 4d

Turn off loading lines



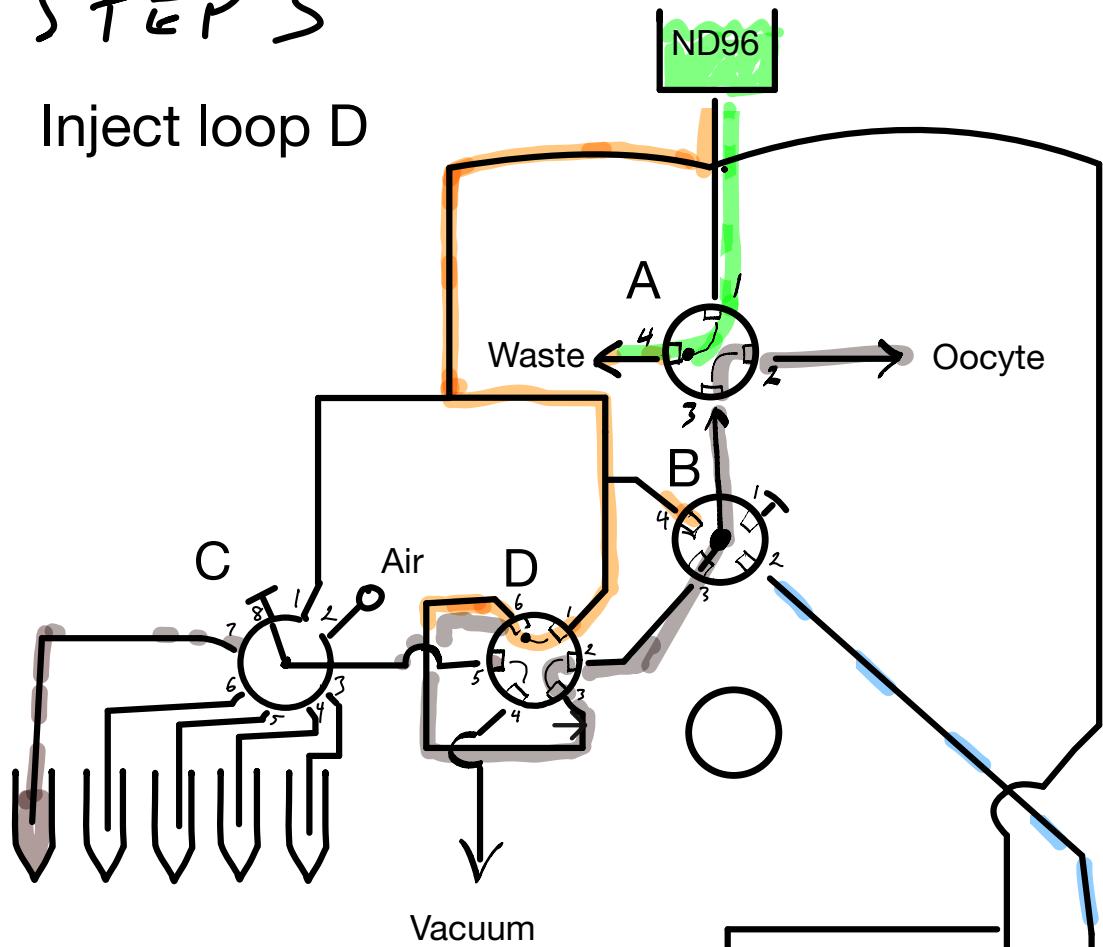
Valve positions

A	4
B	4
→ C	8
D	6
→ E	8
F	6



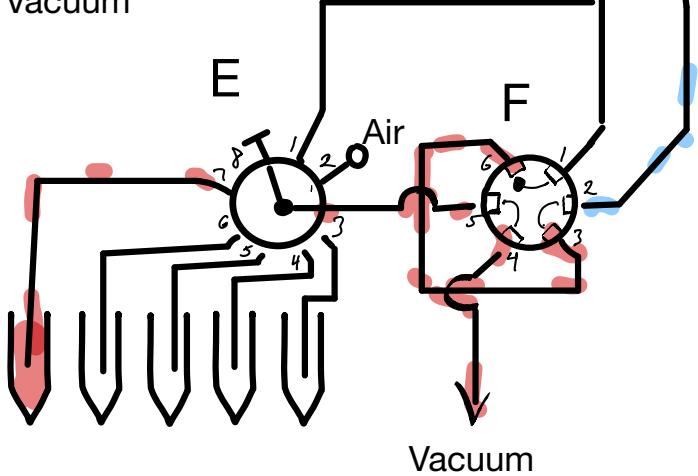
*STEP 5*

Inject loop D



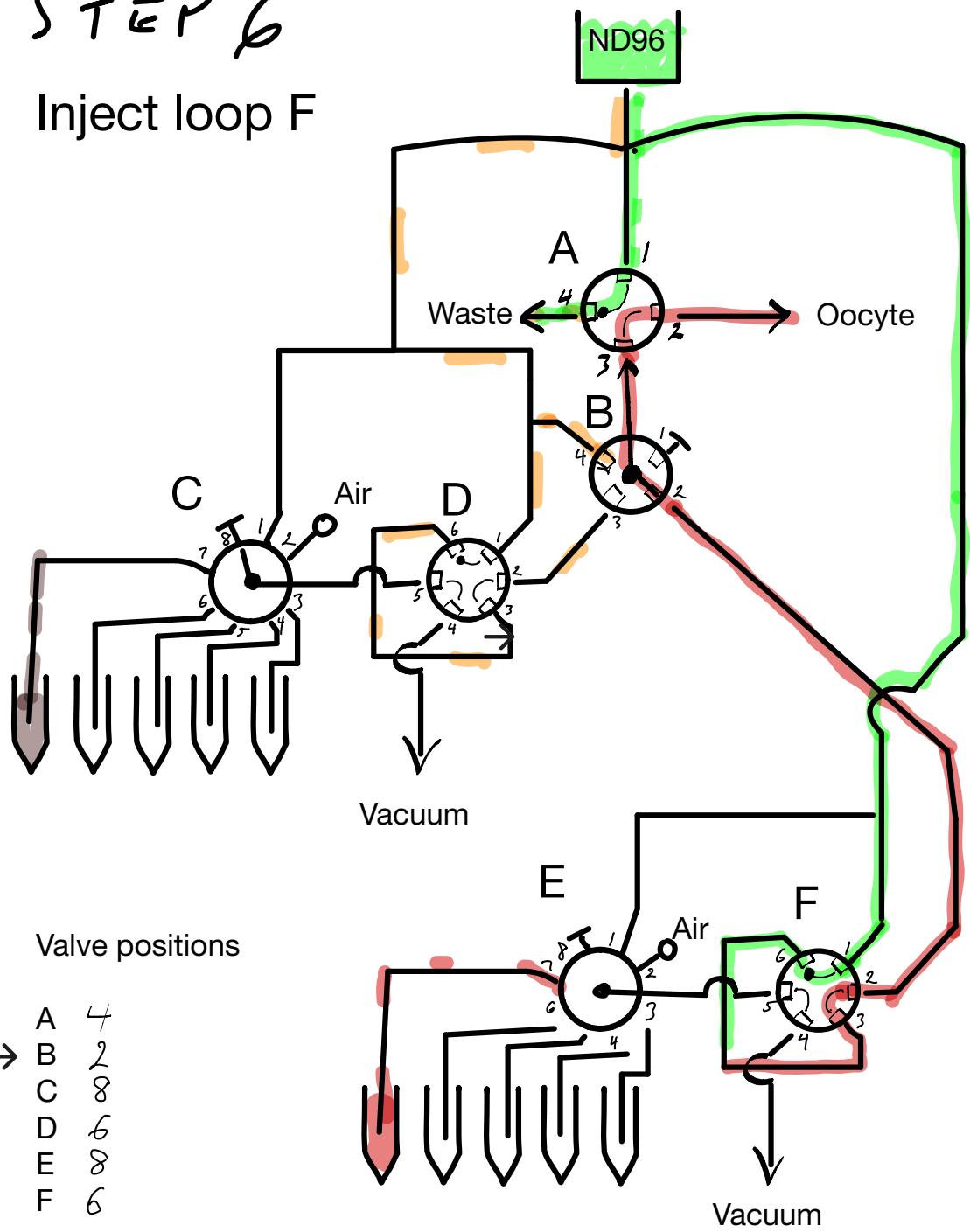
Valve positions

- A 4
- B 3
- C 8
- D 6
- E 8
- F 6



# STEP 6

## Inject loop F

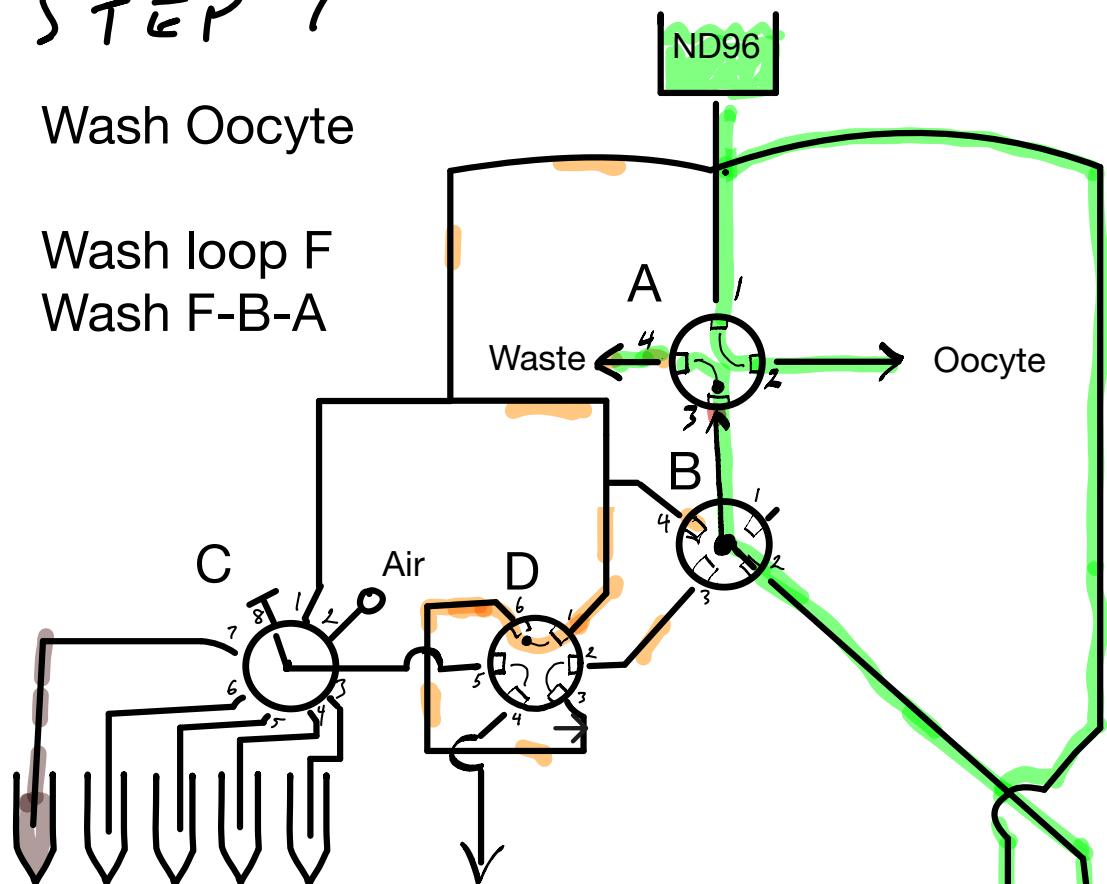


# STEP 7

Wash Oocyte

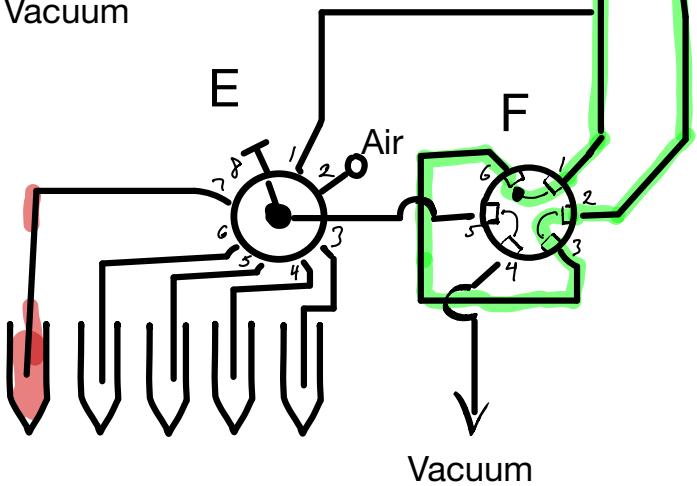
Wash loop F

Wash F-B-A



Valve positions

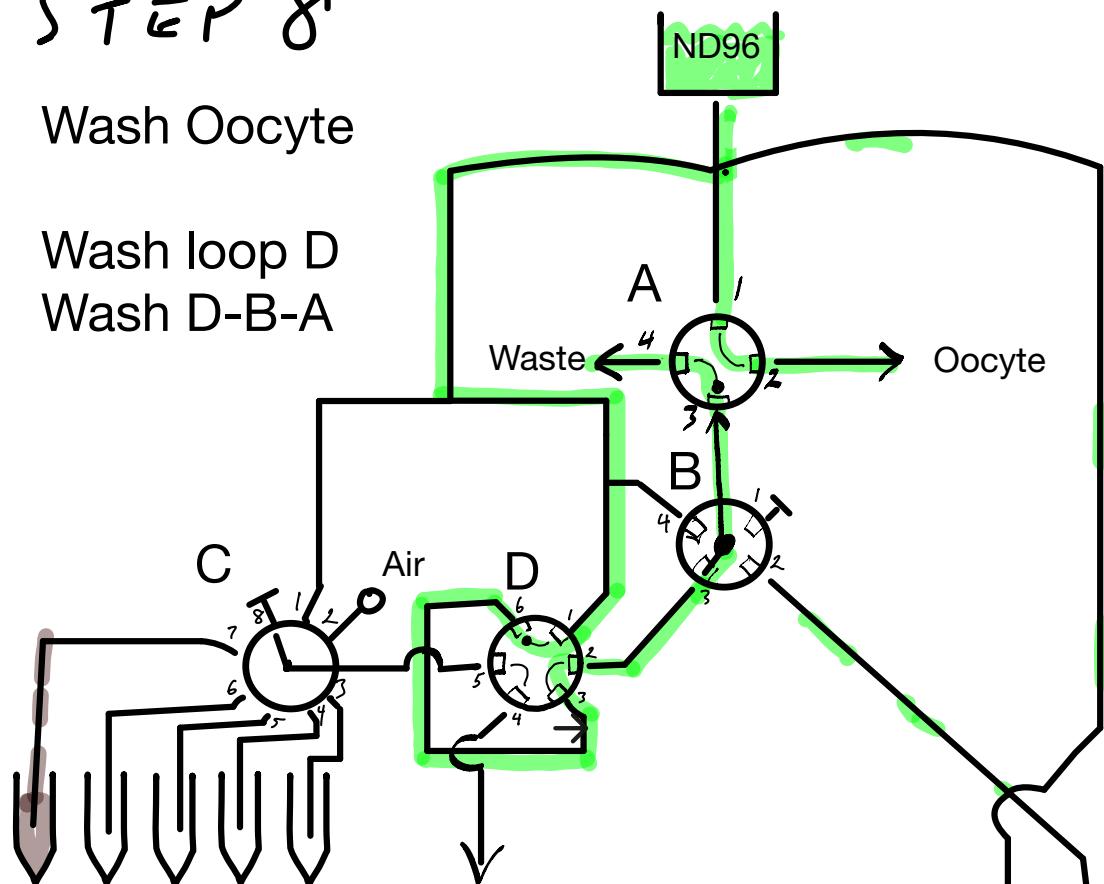
- A 3
- B 2
- C 8
- D 6
- E 8
- F 6



# STEP 8

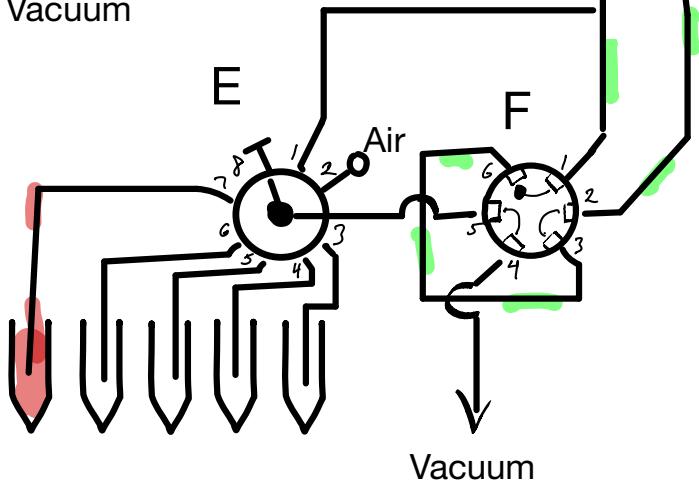
Wash Oocyte

Wash loop D  
Wash D-B-A



Valve positions

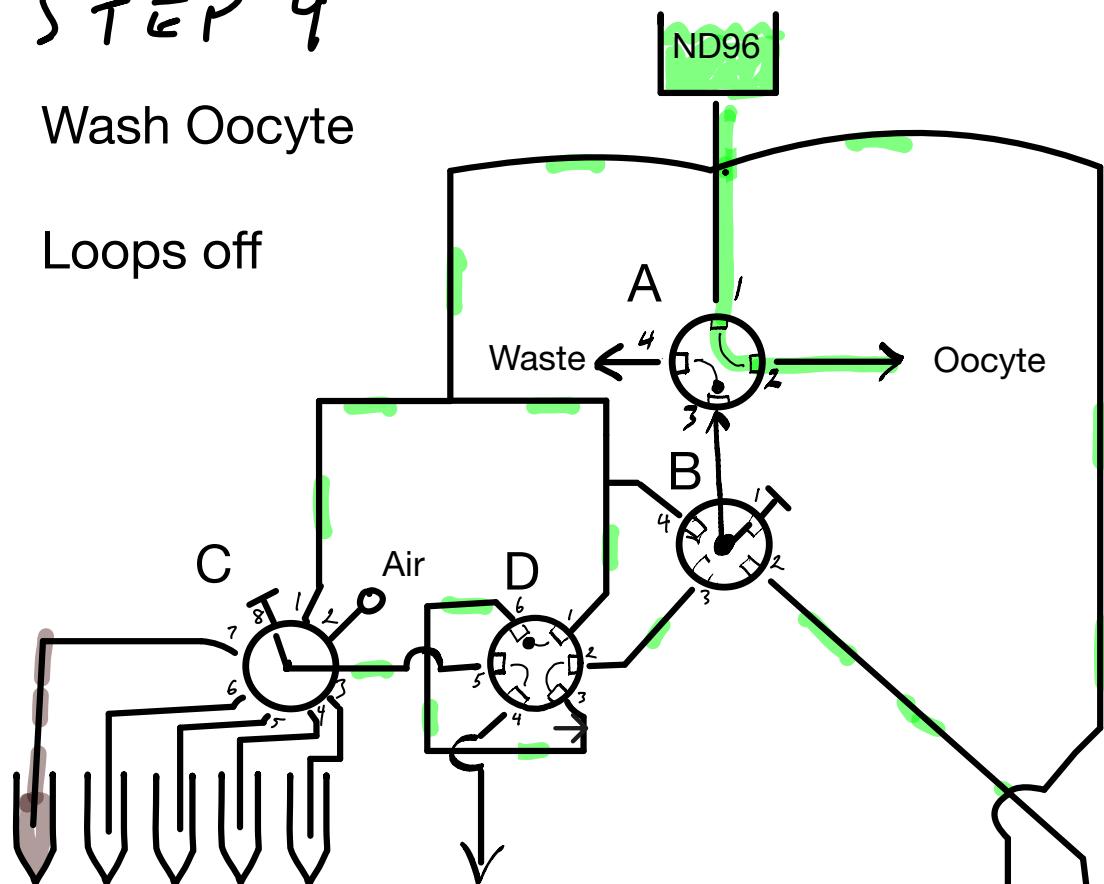
→	A	3
	B	3
	C	8
	D	6
	E	8
	F	6



# STEP 9

Wash Oocyte

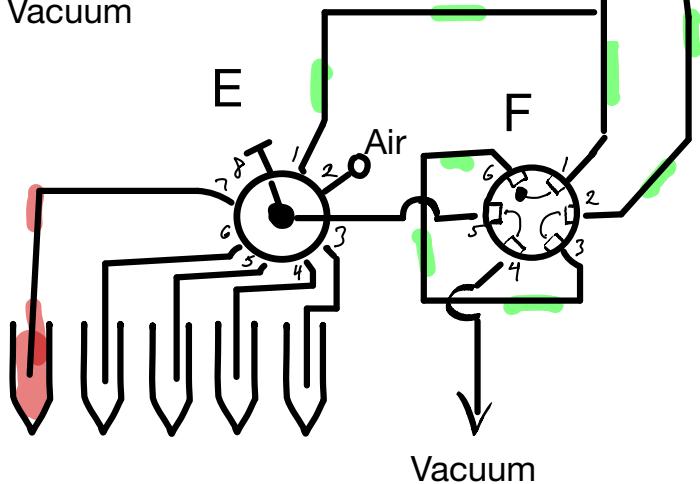
Loops off



Valve positions

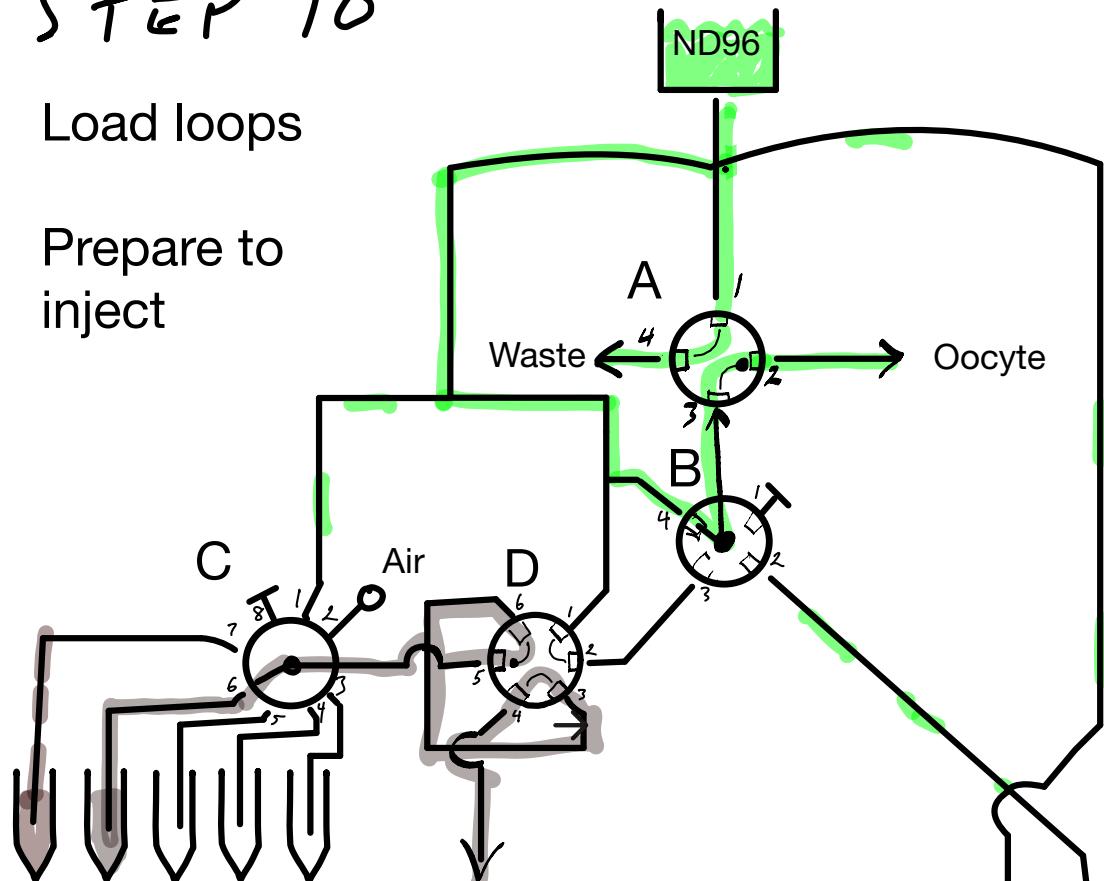
→

A	3
B	1
C	8
D	6
E	8
F	6



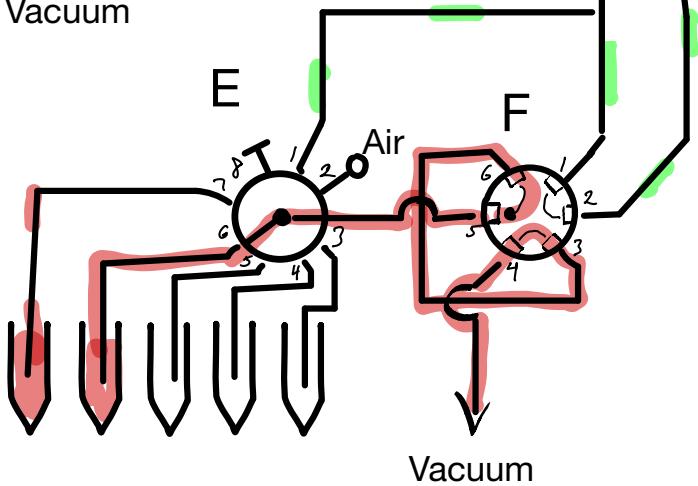
# STEP 10

Load loops  
Prepare to inject



Valve positions

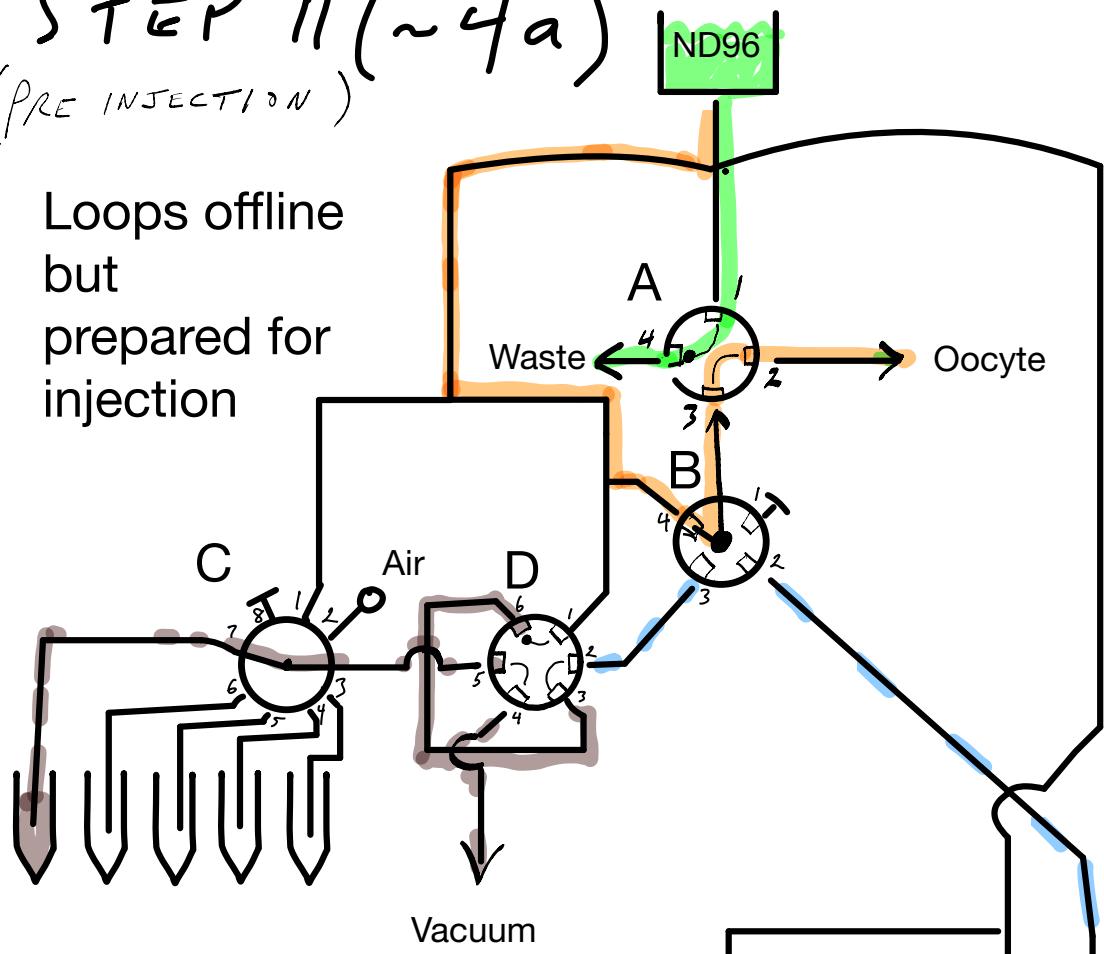
- A 2
- B 4
- C 6
- D 5
- E 6
- F 5



# STEP 11 (~4a)

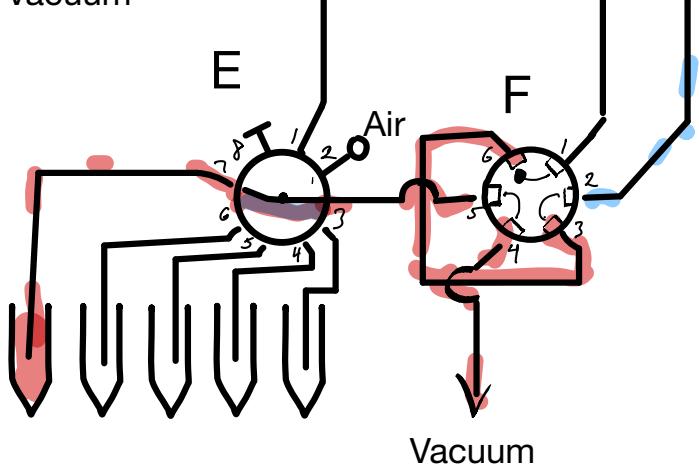
(PRE INJECTION)

Loops offline  
but  
prepared for  
injection



Valve positions

- A 4 (~2)
- B 4
- C 7 (x)
- D 6 (~4 ~2)
- E 7 (x)
- F 6 (~4 ~2)



4a

4b

4c

Valve positions

A	2
B	→ 4
C	7
D	→ 4
E	7
F	→ 4

Valve positions

A	2
B	2
C	→ 2
D	4
E	→ 2
F	4

Valve positions

A	2
B	2
→ C	1
D	4
→ E	1
F	4

