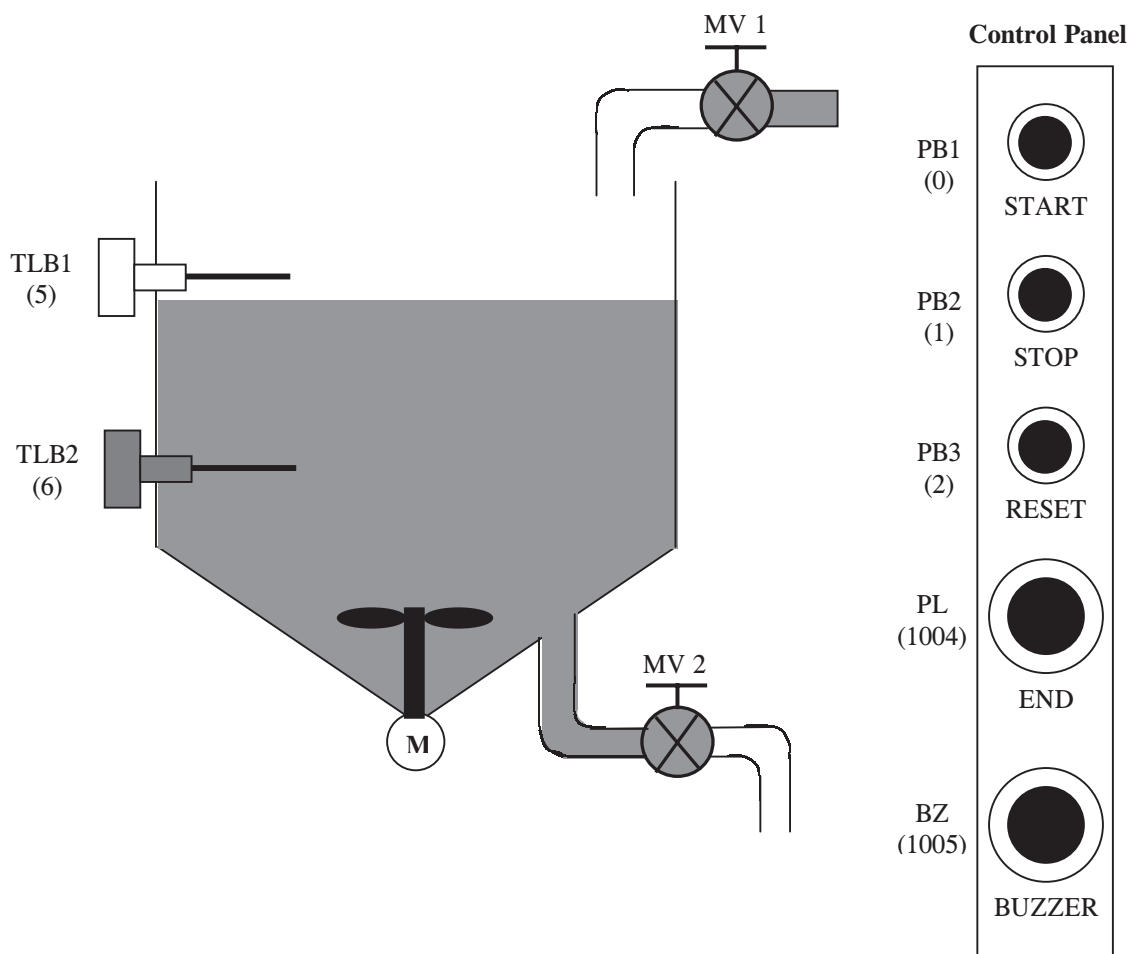


6. APPLICATION EXAMPLES OF BASIC COMMANDS

□ Application #5: Filling/Draining Control Operation



• I/O Assignments

Input	Device
00000	Start Button (PB1)
00001	Stop Button (PB2)
00002	Reset Button (PB3)
00005	Upper Level Switch (TLB1)
00006	Lower Level Switch (TLB2)

Output	Device
01000	Water Supply Valve (MV1)
01001	Drain Valve (MV2)
01002	Stirring Motor (M)
01004	End Indicator
01005	Buzzer

• Procedure

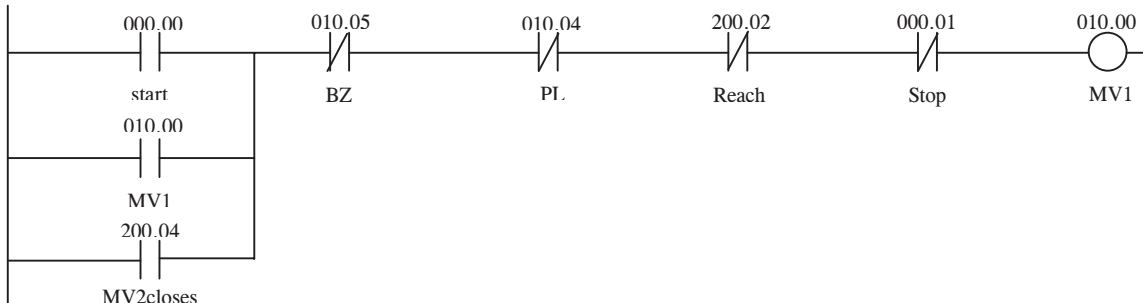
1. As the PB1 is pressed, MV1 opens and the water begins to fill the tank. At the same time, the stirring motor M starts operations.
2. When the water level passes TLB2 and reaches TLB1, the MV1 closes and the stirring motor stops.
3. Next, MV2 opens and starts draining the water. When the water levels drops below TLB2, MV2 closes.
4. When the cycle of operation has repeated four times, the operation END indicator illuminates, and the filling and draining operation will not restart even if PB1 is pressed.

6. APPLICATION EXAMPLES OF BASIC COMMANDS

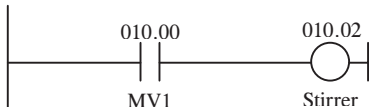
Ladder diagram : Main 1 Network 1

Main 1 – Fill / Draining
Filling / Draining control operation

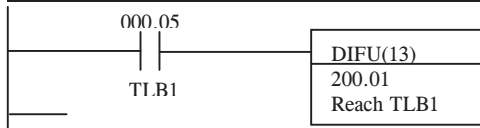
Network 1 – Start condition



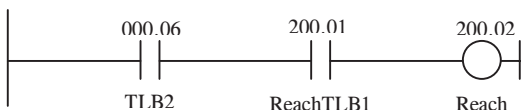
Network 2 – Stirring



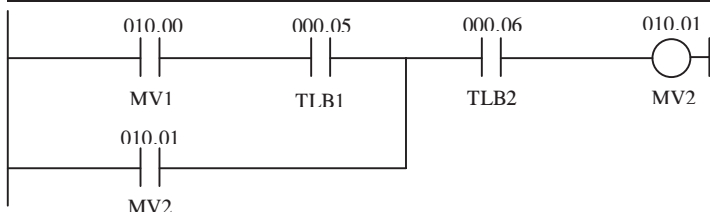
Network 3 – Reach TLB 1



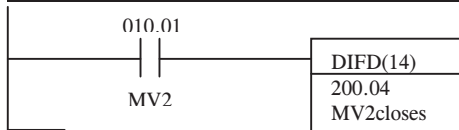
Network 4 – Water reach TLB



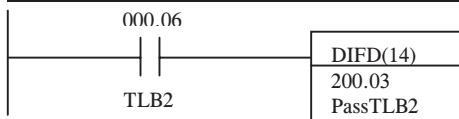
Network 5 – Drain



Network 6 – MV2 closes

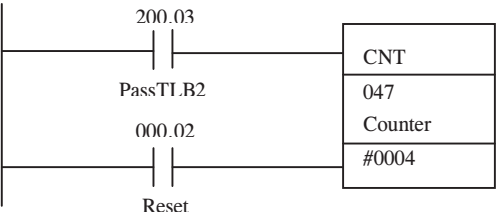


Network 7 – Pass TLB2



6. APPLICATION EXAMPLES OF BASIC COMMANDS

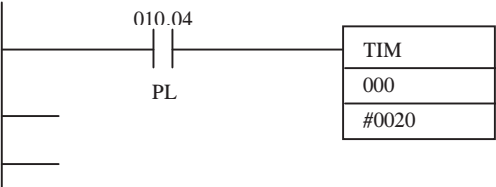
Network 8 – Counter
Counter preset at 4



Network 9 – End indication



Network 10 – Delay
Delay for 2 seconds



Network 11 – Buzzer



Network 12 – End

