

## Two Pump Control

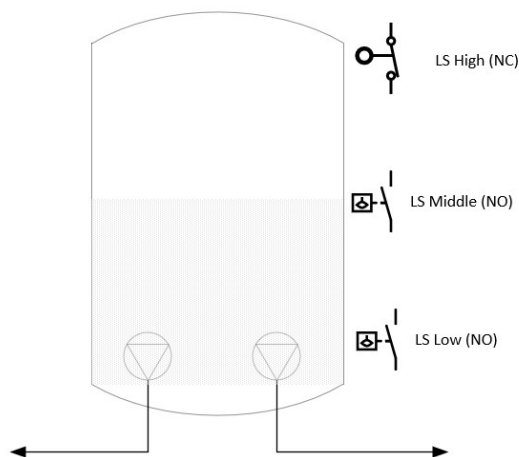
Signals from level switches determine when the pumps should start or stop.

If level in the well is between LS Low and LS Middle, one pump must be in operation.

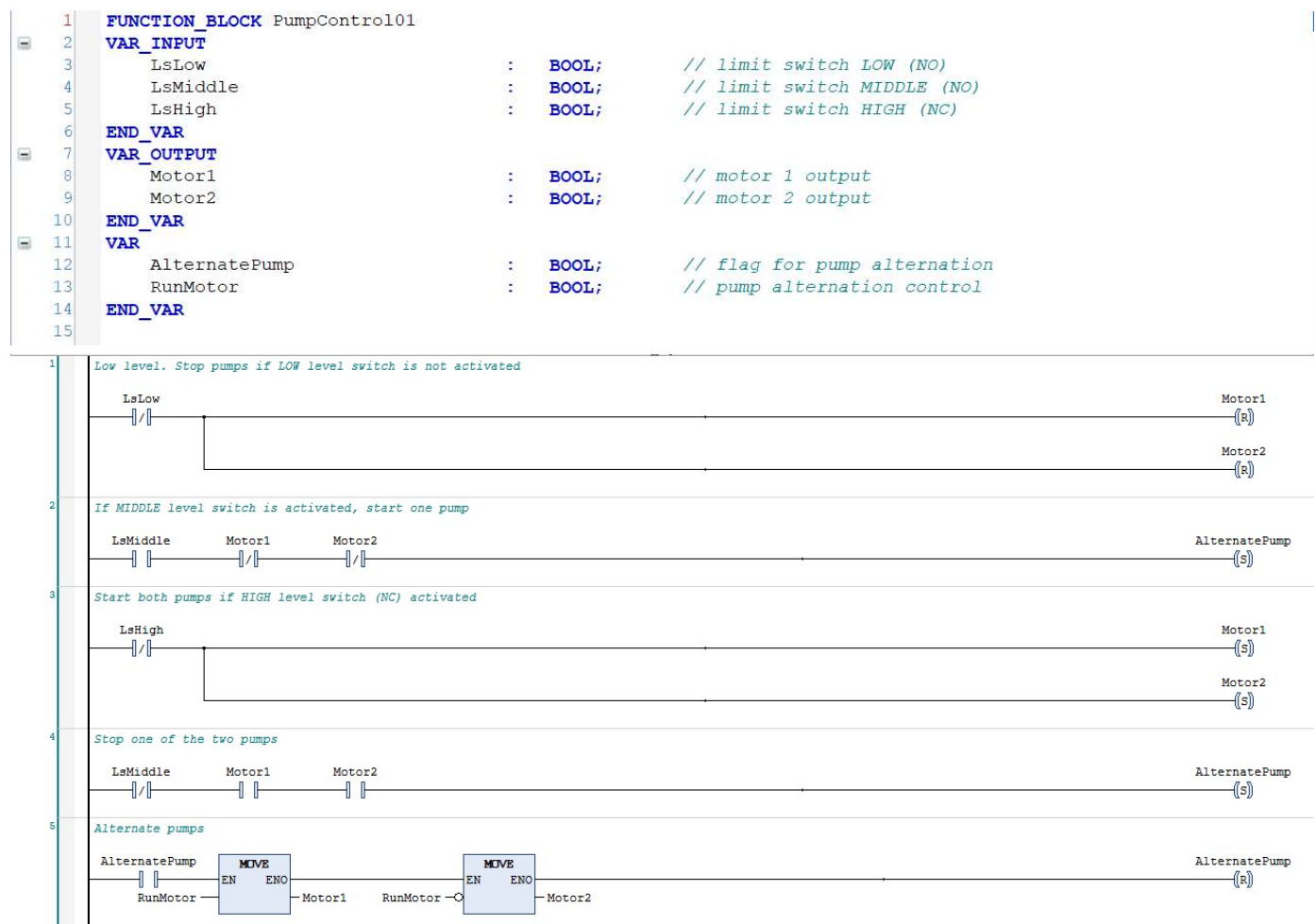
If the level is above LS High, both pumps must run to pump at full capacity.

If the level is below LS Low, both pumps must be stopped to avoid dry run.

Pumps should be control in alternating operation mode.



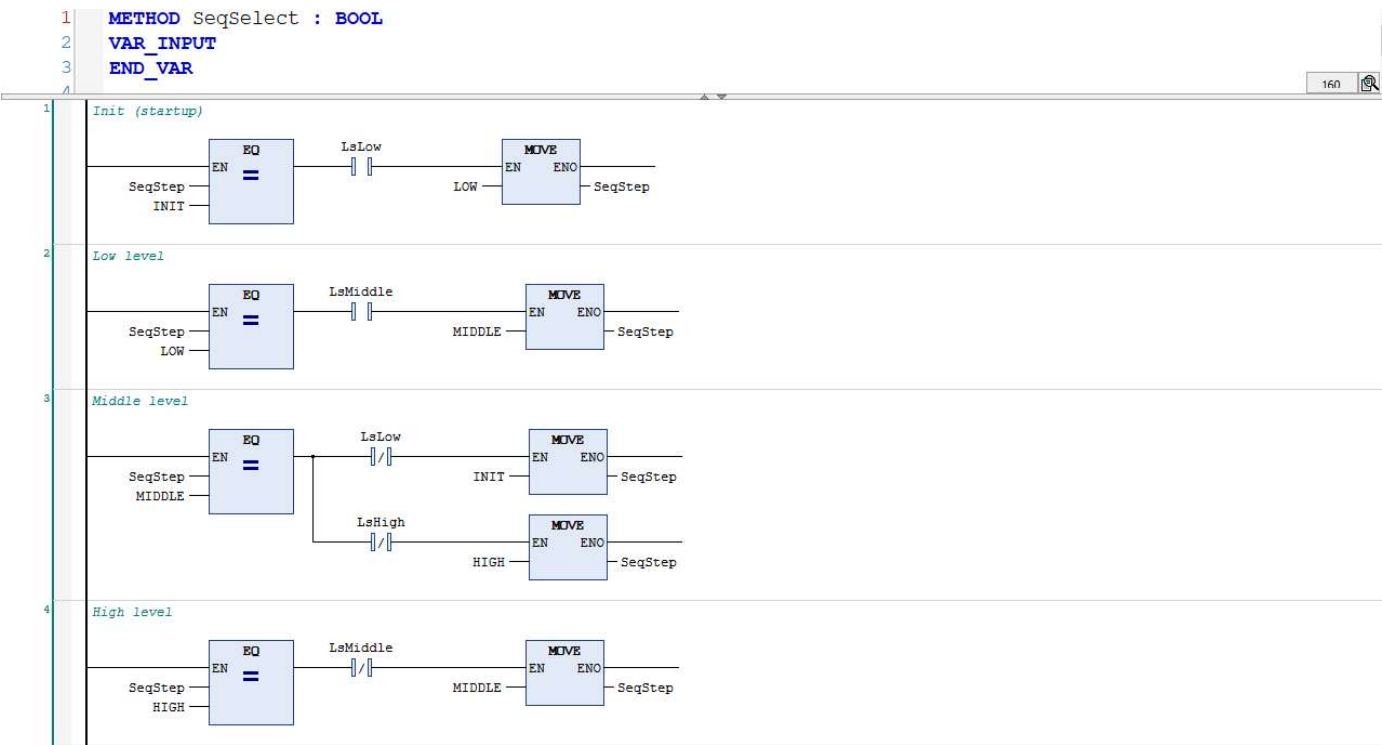
Version 01:



PumpControl02 (FB)  
SeqOutput  
SeqSelect

```
1 FUNCTION_BLOCK PumpControl02
2 VAR_INPUT
3     LsLow          : BOOL;      // limit switch LOW (NO)
4     LsMiddle       : BOOL;      // limit switch MIDDLE (NO)
5     LsHigh         : BOOL;      // limit switch HIGH (NC)
6 END_VAR
7 VAR_OUTPUT
8     Motor1         : BOOL;      // motor 1 output
9     Motor2         : BOOL;      // motor 2 output
10 END_VAR
11 VAR
12     SeqStep        : (INIT, LOW, MIDDLE, HIGH) := INIT;
13     RunMotor       : BOOL;      // pump alternation control
14 END_VAR
15
```

1 SeqSelect();  
2 SeqOutput();



```

1  METHOD SeqOutput : BOOL
2  VAR_INPUT
3  END_VAR
4
5  VAR
6      StepMiddleOneShot: R_TRIG;
7  END_VAR

```

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