

## Main [OB1]

### Main Properties

#### General

<b>Name</b>	Main	<b>Number</b>	1	<b>Type</b>	OB
<b>Language</b>	LAD	<b>Numbering</b>	Manual		

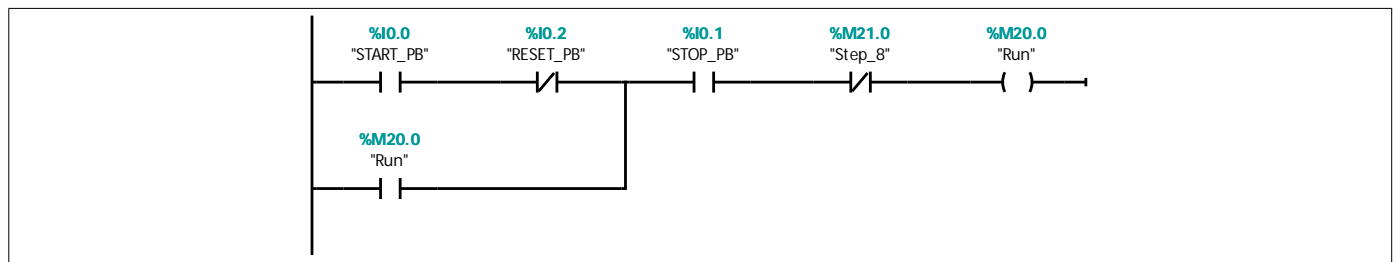
#### Information

<b>Title</b>	"Main Program Sweep (Cycle)"	<b>Author</b>		<b>Comment</b>	Example 7.6 - Simple batch control  Copyright (c) 2022 Dogwood Valley Press, LLC
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

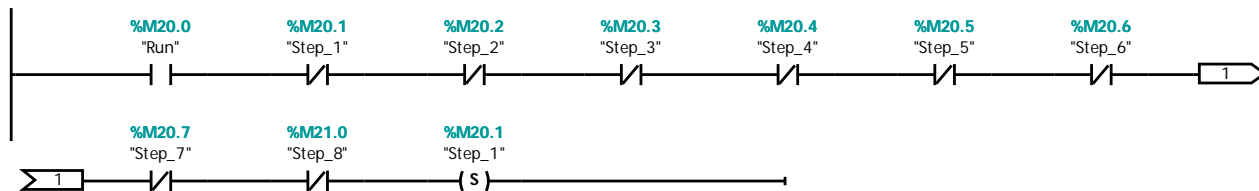
Name	Data type	Default value
▼ Temp		
OB1_EV_CLASS	Byte	
OB1_SCAN_1	Byte	
OB1_PRIORITY	Byte	
OB1_OB_NUMBR	Byte	
OB1_RESERVED_1	Byte	
OB1_RESERVED_2	Byte	
OB1_PREV_CYCLE	Int	
OB1_MIN_CYCLE	Int	
OB1_MAX_CYCLE	Int	
OB1_DATE_TIME	Date_And_Time	
Constant		

### Network 1: Process running

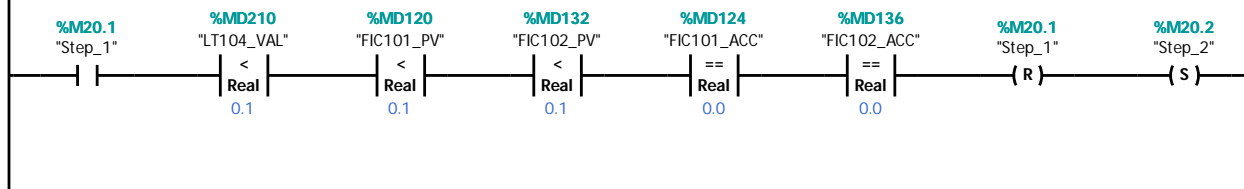
Start/stop/pause. Start prevented if reset in progress



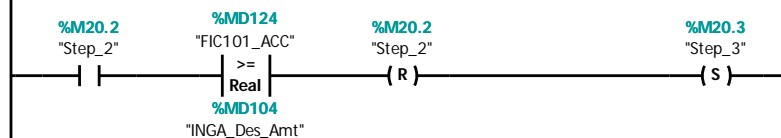
### Network 2:



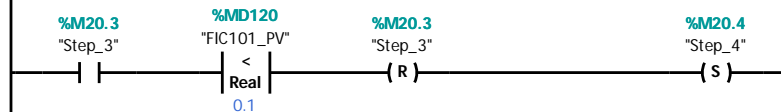
### Network 3: Step 1 - Prestart checks



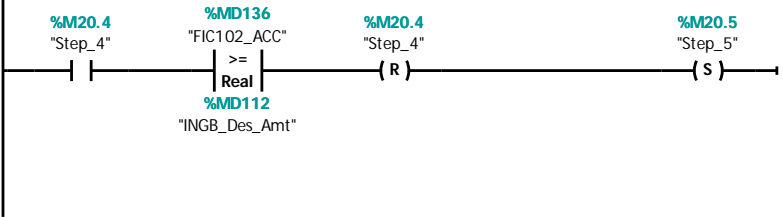
### Network 4: Step 2 - Add ingredient A



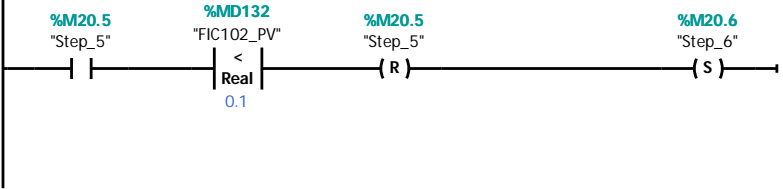
### Network 5: Step 3 - Wait for A shutoff



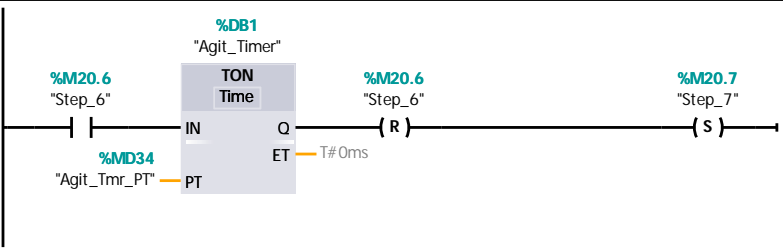
### Network 6: Step 4 - Add B



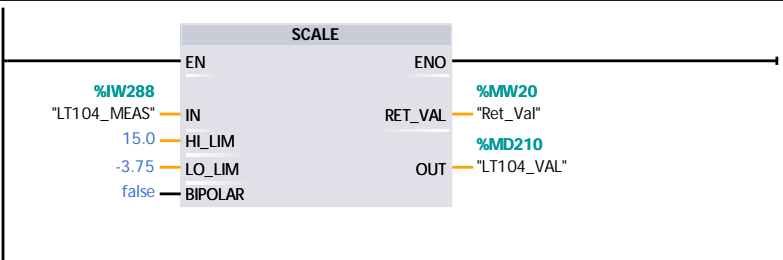
Network 7: Step 5 - Wait for B shutoff



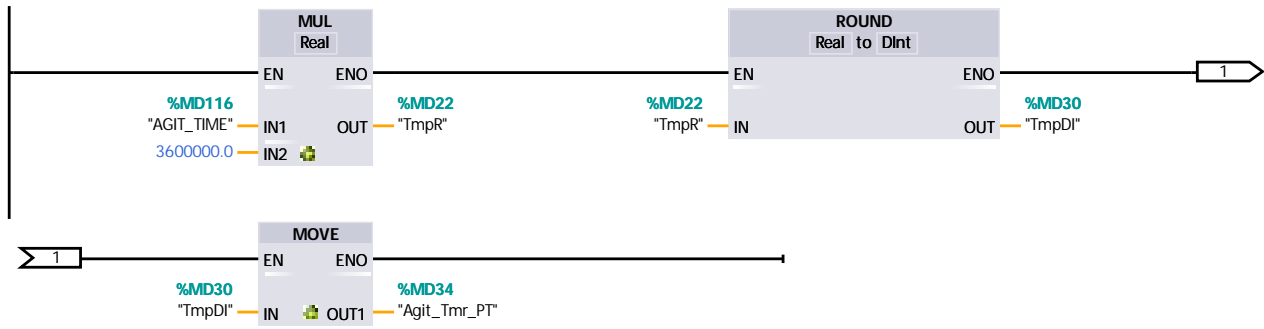
Network 8: Step 6 - Agitate fast



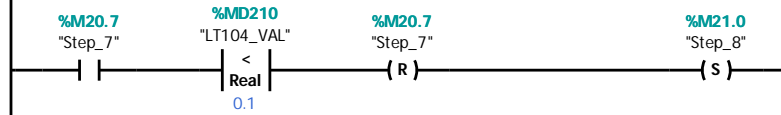
Network 9: Conversion of Level



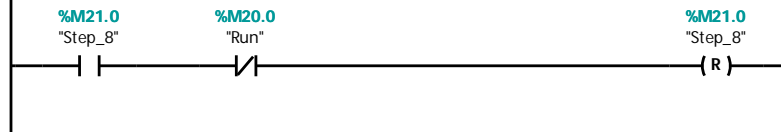
Network 10: Convert agitation time in minutes into timer preset time in MS



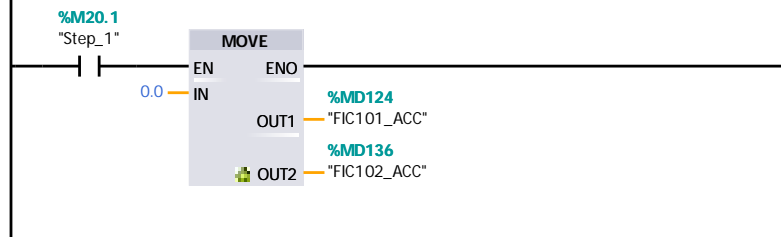
### Network 11: Step 7 - Dump Tank



### Network 12: Step 8 - Unlatch Run

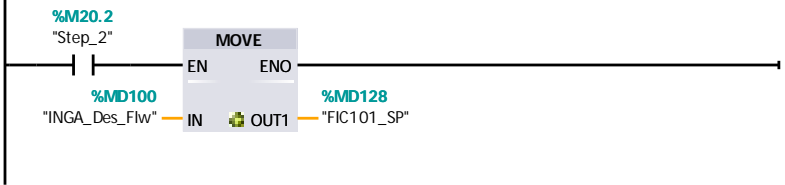


### Network 13: Reset of accumulators in prestart step

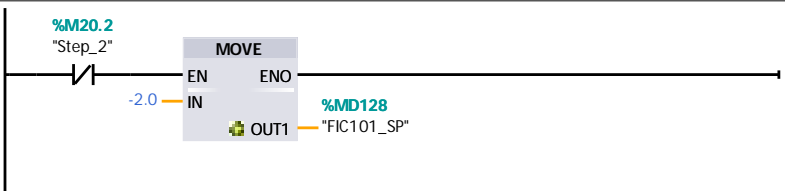


### Network 14: FIC101 setpoint moves

Normally -2 moved in. Only in Step 2 is setpoint set to desired flow.

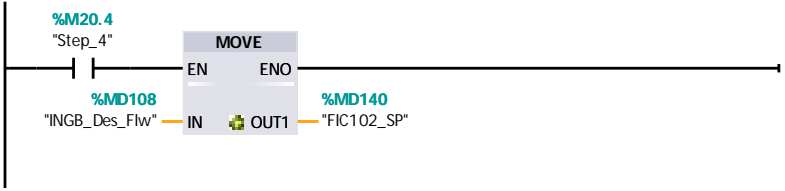


Network 15:

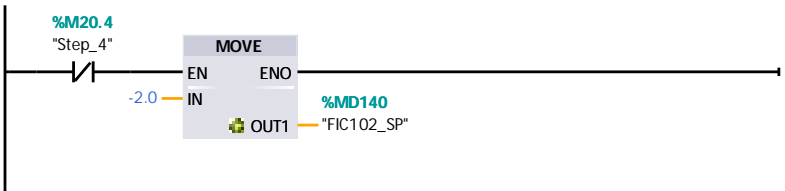


Network 16: FIC102 setpoint moves

Normally -2 moved in. Only in Step 4 is setpoint set to desired flow.



Network 17:



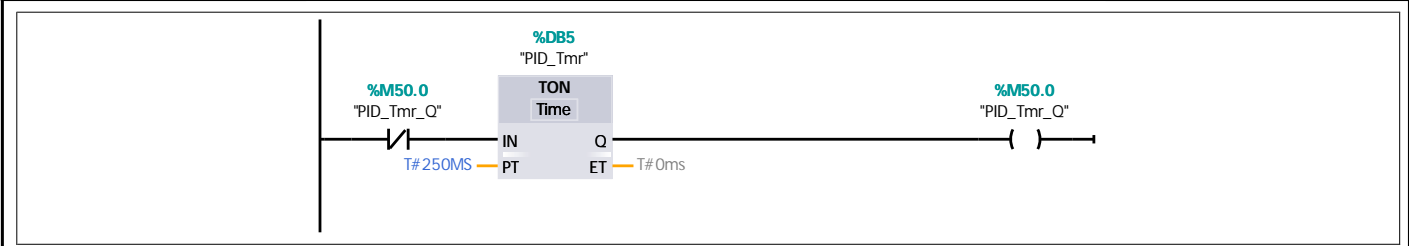
Network 18: XV101 valve control

Valve controls

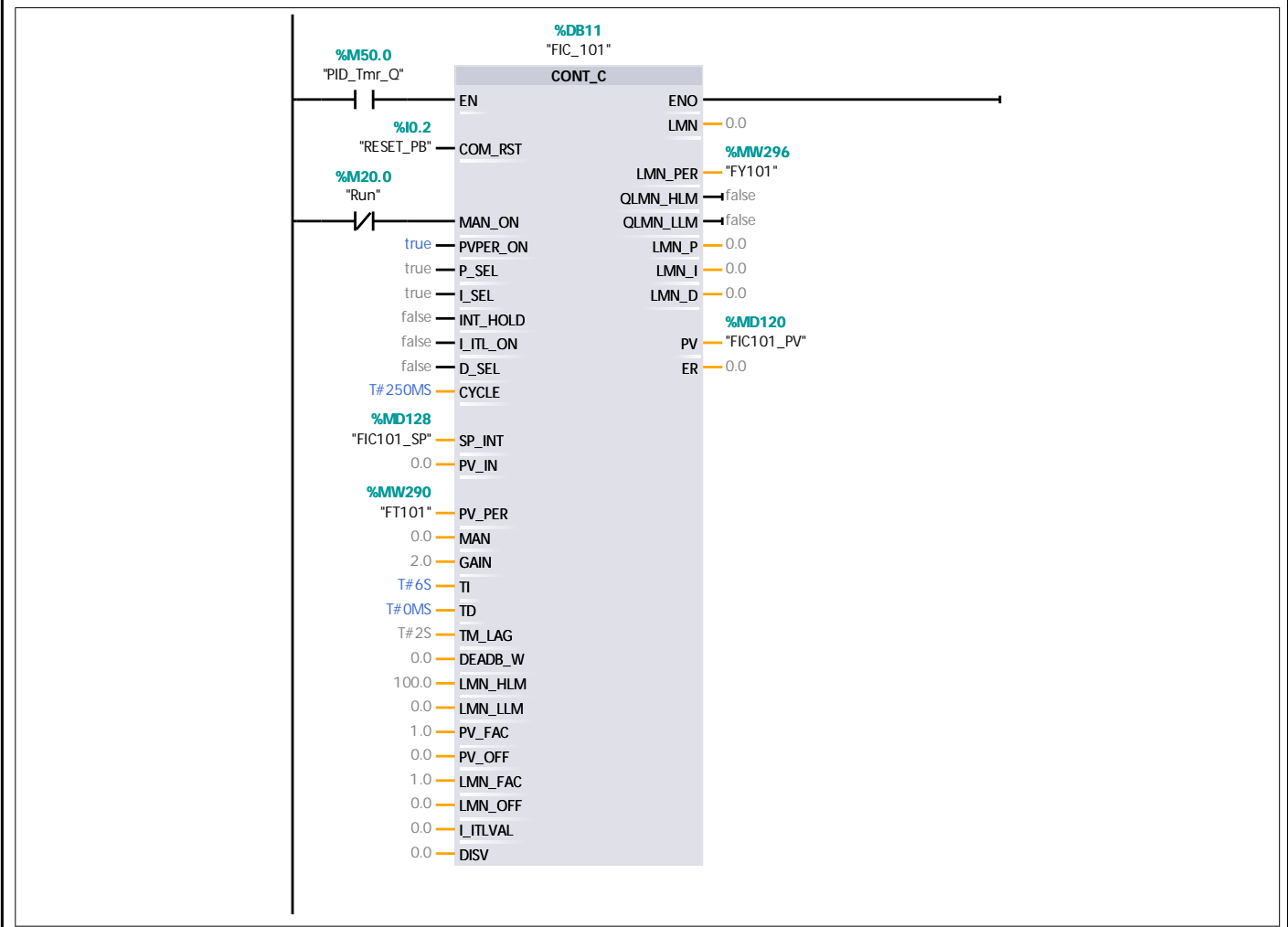


Network 19: XV102 valve control

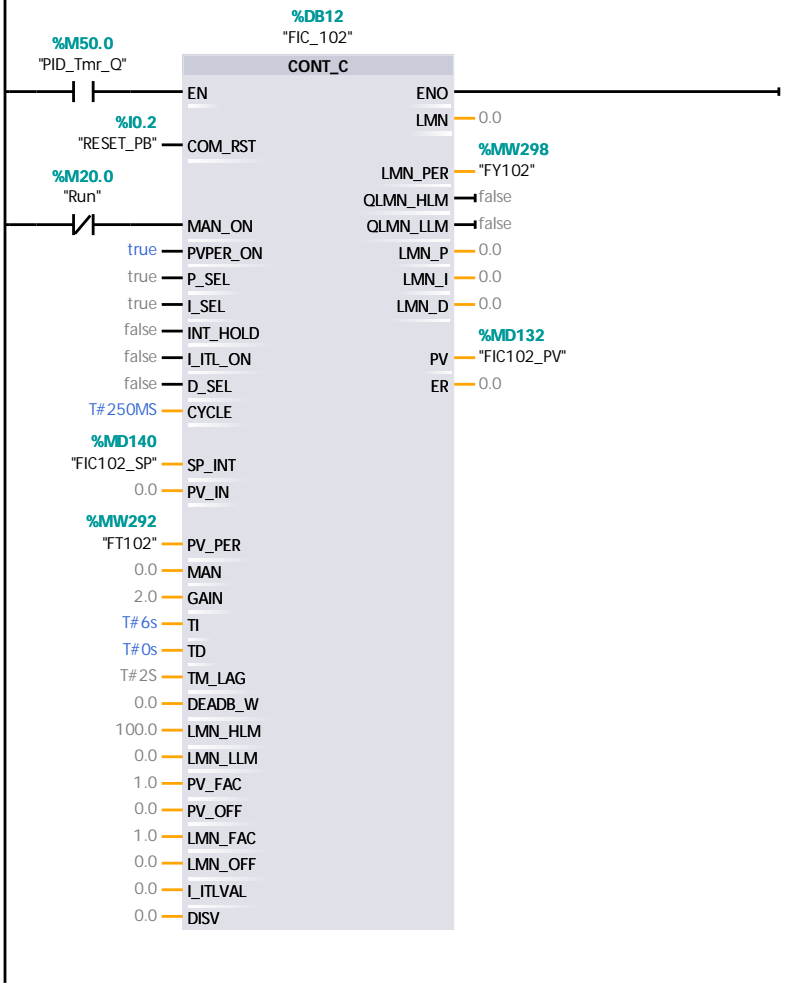
Totally Integrated Automation Portal		
<div><div></div><div><div>%M20.4 "Step_4"</div><div>%M20.0 "Run"</div><div>%Q4.3 "XV102_OPEN"</div></div></div>		
<b>Network 20: XV103 valve control</b>		
<div><div></div><div><div>%M20.7 "Step_7"</div><div>%M20.0 "Run"</div><div>%Q4.4 "XV103_OPEN"</div></div></div>		
<b>Network 21: Outlet pump motor control</b>		
Pump controls		
<div><div></div><div><div>%M20.7 "Step_7"</div><div>%M20.0 "Run"</div><div>%Q4.5 "P103_RUN"</div></div></div>		
<b>Network 22: Agitator slow speed</b>		
Agitator controls		
<div><div></div><div><div><div>%M20.4 "Step_4"</div><div>%M20.5 "Step_5"</div><div>%M20.7 "Step_7"</div></div><div>%Q4.0 "A105_SLOW"</div></div></div>		
<b>Network 23: Agitator fast speed</b>		
<div><div></div><div><div>%M20.6 "Step_6"</div><div>%Q4.1 "A105_FAST"</div></div></div>		
<b>Network 24: PID Sample Timer</b>		



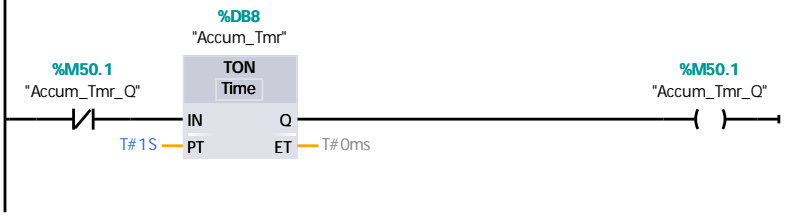
**Network 25: FIC101 PID Loop**



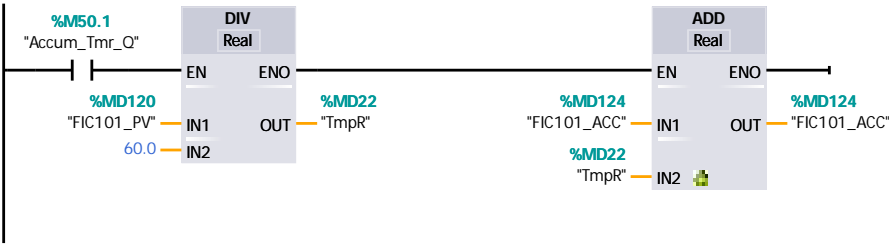
**Network 26: FIC102 PID Loop**



Network 27: Flow accumulator timer



Network 28: FIC101 Accumulator

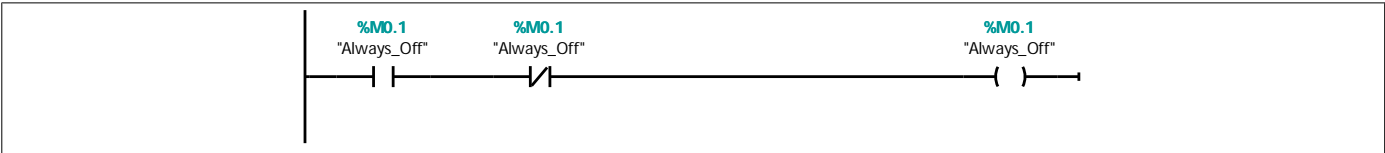




Network 29: FIC102 Accumulator



Network 30: Always Off



Network 31: Always On

