

TECHNICAL DOCUMENTATION

SP9_3

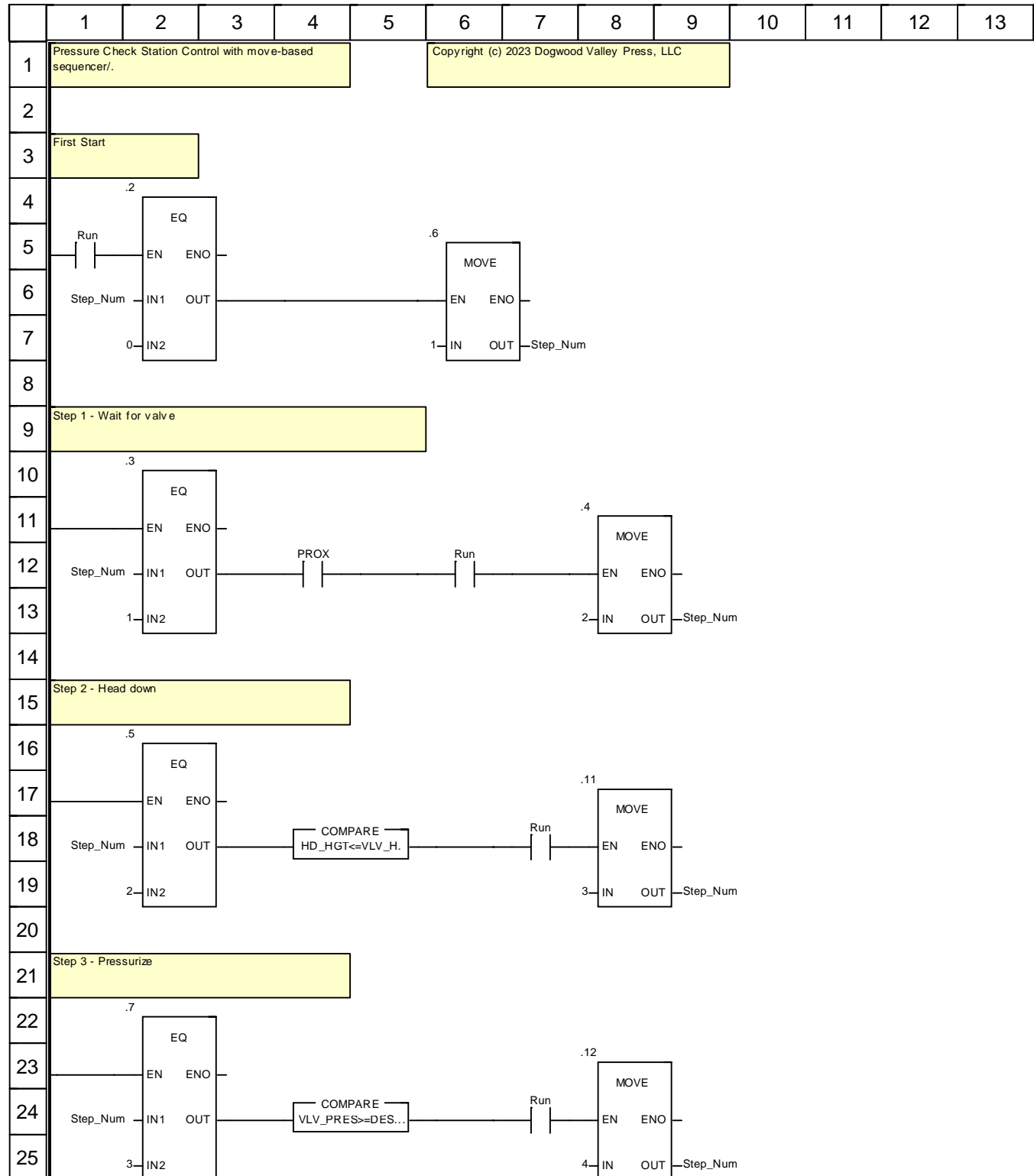
Project	SP9_6
Designer	
Application	sp9_03.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/23/2023 4:59:50 PM
Last Modification Date	6/23/2023 8:39:28 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

MAST

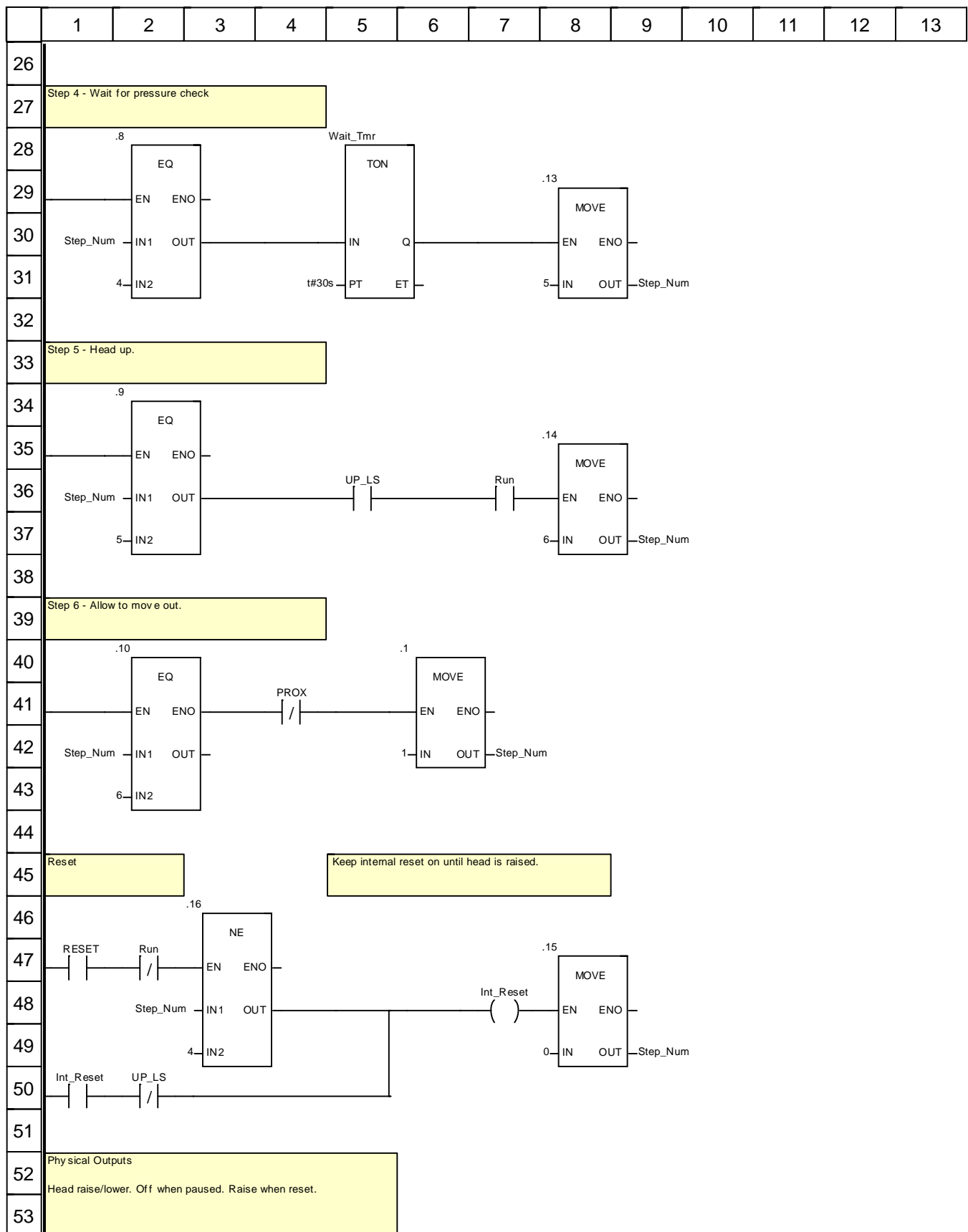
Specific properties

Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

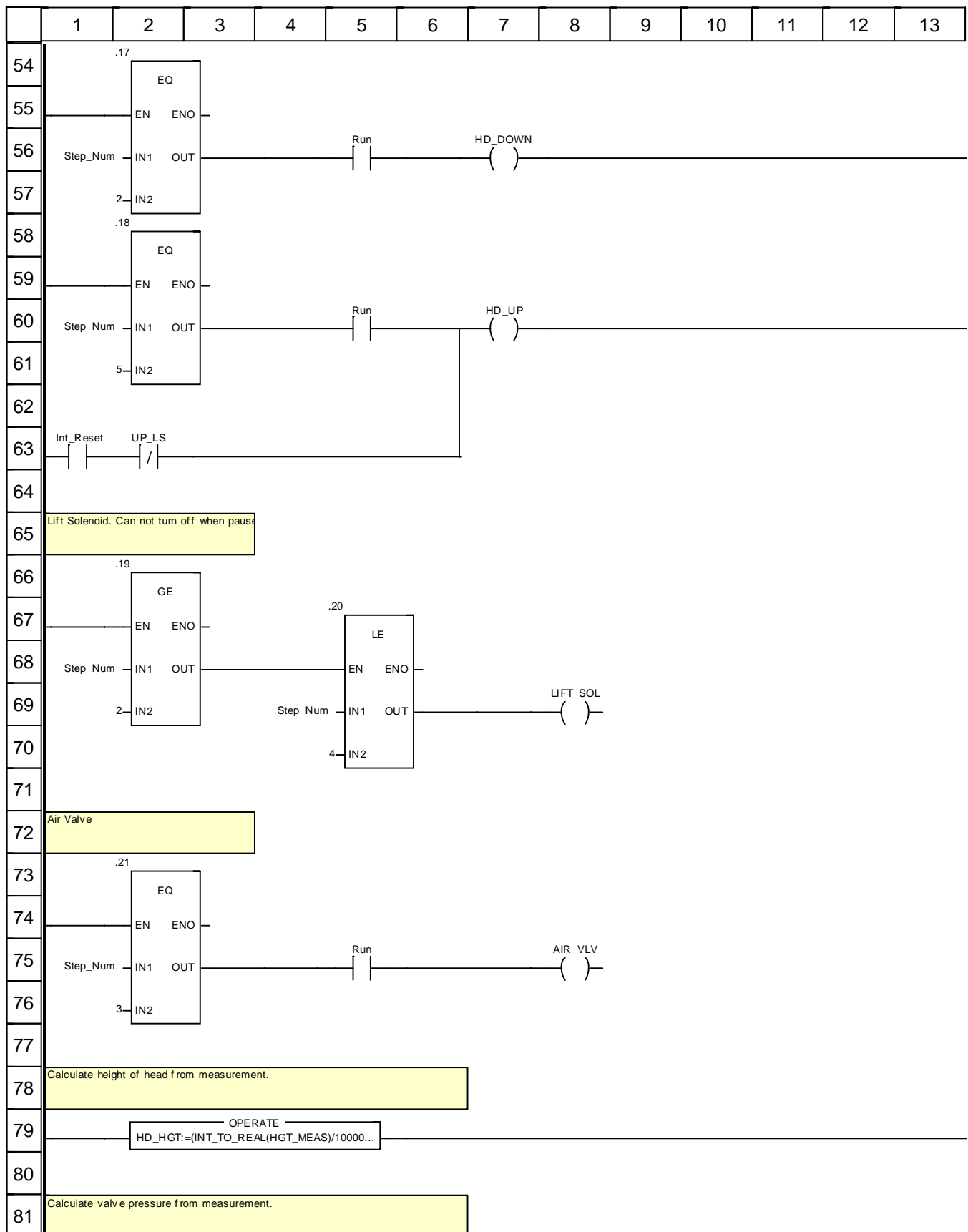
Main : [MAST]



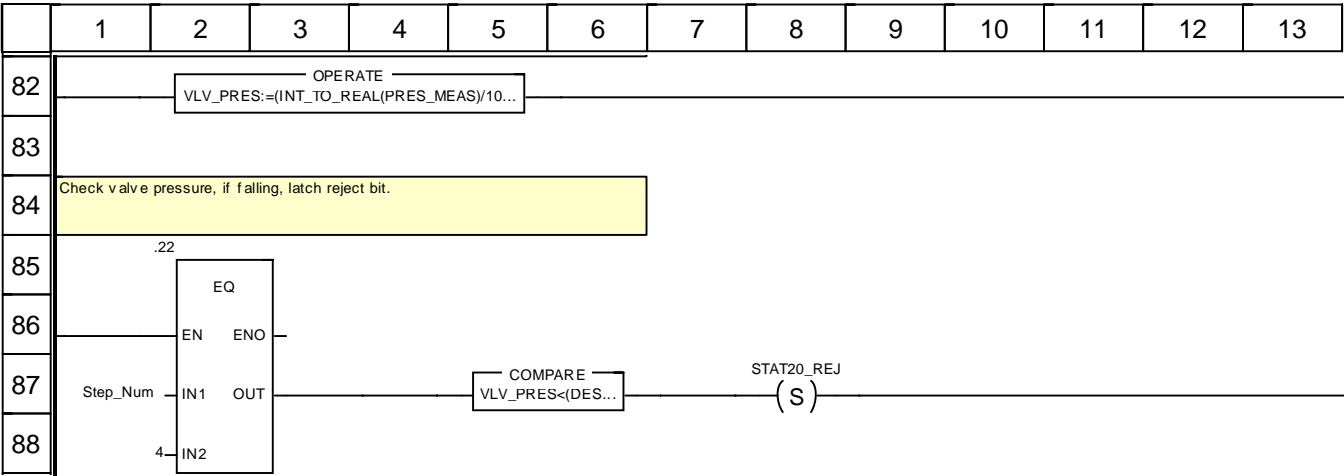
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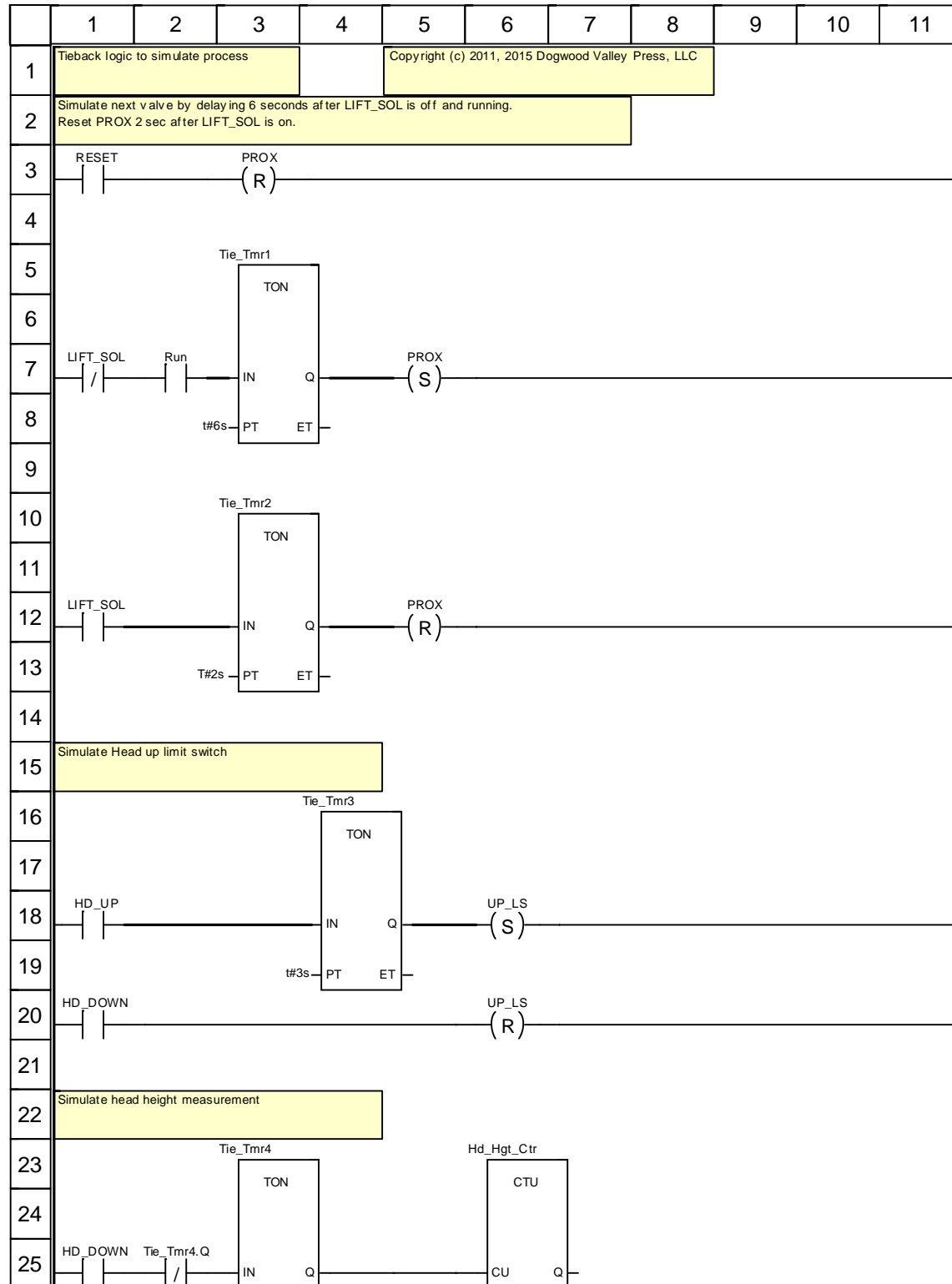


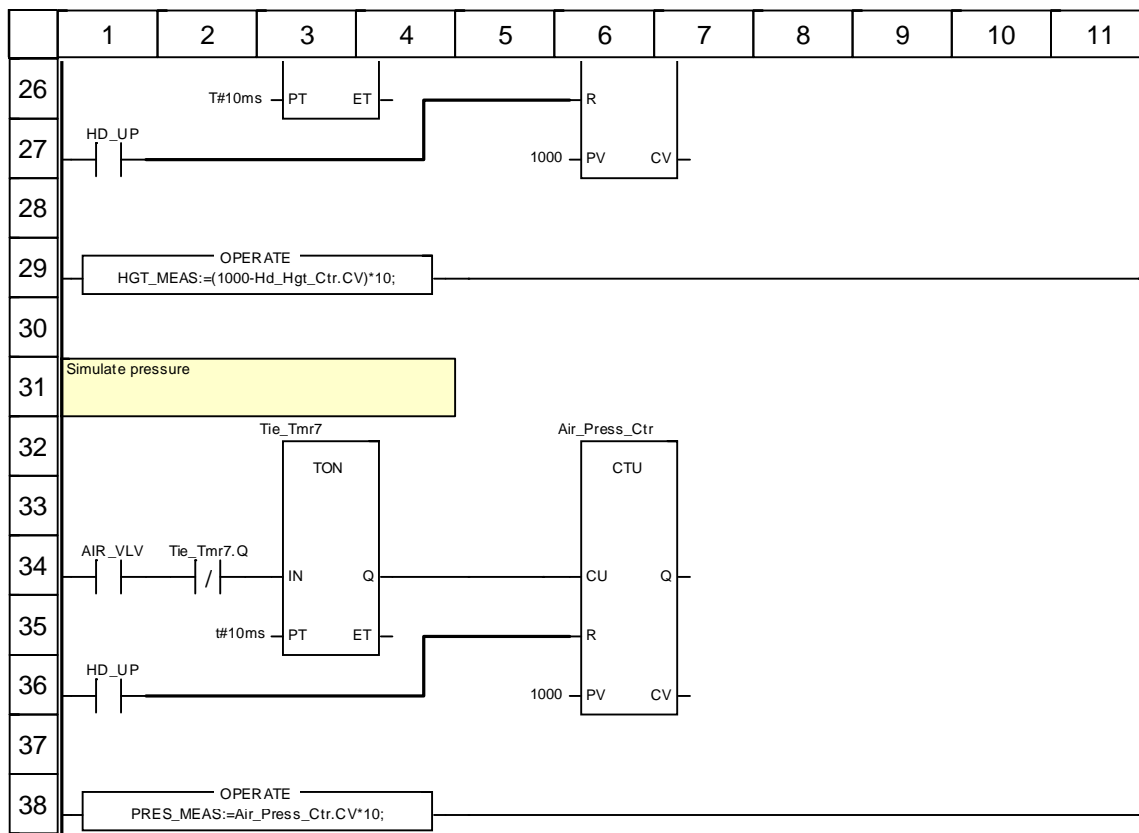
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Truncated labels:

Label	Position(s)
HD_HGT:=(INT_TO_REAL(HGT_MEAS)/10000.0)*(150.0-75.0)+75.0;	(2, 79)
HD_HGT<=VLV_HGT	(4, 18)
VLV_PRES:=(INT_TO_REAL(PRES_MEAS)/10000.0)*(100.0-0.0)+0.0;	(2, 82)
VLV_PRES<(DES_PRES-0.1)	(5, 87)
VLV_PRES>=DES_PRES	(4, 24)

Simulation : [MAST]





FAST

Specific properties

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

Cross References

Application:

Addresses

Object	Referred into	Location	Usage
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Variables or FB instances

Object	Referred into	Location	Usage
Air_Press_Ctr	Simulation : [MAST]	(L 38, c: 1)	R
		(L 32, c: 6)	FC
AIR_VLV	Main : [MAST]	(L 75, c: 8)	W
	Simulation : [MAST]	(L 34, c: 1)	R
DES_PRES	Main : [MAST]	(L 24, c: 4)	R
		(L 87, c: 5)	R
HD_DOWN	Main : [MAST]	(L 56, c: 7)	W
	Simulation : [MAST]	(L 20, c: 1)	R
		(L 25, c: 1)	R
HD_HGT	Main : [MAST]	(L 79, c: 2)	W
		(L 18, c: 4)	R
Hd_Hgt_Ctr	Simulation : [MAST]	(L 29, c: 1)	R
		(L 23, c: 6)	FC
HD_UP	Main : [MAST]	(L 60, c: 7)	W
	Simulation : [MAST]	(L 18, c: 1)	R
		(L 27, c: 1)	R
		(L 36, c: 1)	R
HGT_MEAS	Main : [MAST]	(L 79, c: 2)	R
	Simulation : [MAST]	(L 29, c: 1)	W
Int_Reset	Main : [MAST]	(L 63, c: 1)	R
		(L 50, c: 1)	R
		(L 48, c: 7)	W
LIFT_SOL	Main : [MAST]	(L 69, c: 8)	W
	Simulation : [MAST]	(L 7, c: 1)	R
		(L 12, c: 1)	R
PRES_MEAS	Main : [MAST]	(L 82, c: 2)	R
	Simulation : [MAST]	(L 38, c: 1)	W
PROX	Main : [MAST]	(L 12, c: 4)	R
		(L 41, c: 4)	R
	Simulation : [MAST]	(L 3, c: 3)	W
		(L 7, c: 5)	W
		(L 12, c: 5)	W
RESET	Main : [MAST]	(L 47, c: 1)	R
	Simulation : [MAST]	(L 3, c: 1)	R
Run	Main : [MAST]	(L 5, c: 1)	R
		(L 12, c: 6)	R
		(L 18, c: 7)	R
		(L 24, c: 7)	R
		(L 36, c: 7)	R
		(L 47, c: 2)	R
		(L 56, c: 5)	R
		(L 60, c: 5)	R
		(L 75, c: 5)	R
	Simulation : [MAST]	(L 7, c: 2)	R
STAT20_REJ	Main : [MAST]	(L 87, c: 8)	W

Cross References

Object	Referred into	Location	Usage
Step_Num	Main : [MAST]	(l 4, c: 2)	R
		(l 5, c: 6)	W
		(l 40, c: 6)	W
		(l 10, c: 2)	R
		(l 11, c: 8)	W
		(l 16, c: 2)	R
		(l 17, c: 8)	W
		(l 22, c: 2)	R
		(l 23, c: 8)	W
		(l 28, c: 2)	R
		(l 29, c: 8)	W
		(l 34, c: 2)	R
		(l 35, c: 8)	W
		(l 40, c: 2)	R
		(l 47, c: 8)	W
		(l 46, c: 3)	R
		(l 54, c: 2)	R
		(l 58, c: 2)	R
		(l 66, c: 2)	R
		(l 67, c: 5)	R
		(l 73, c: 2)	R
		(l 85, c: 2)	R
Tie_Tmr1	Simulation : [MAST]	(l 5, c: 3)	FC
Tie_Tmr2	Simulation : [MAST]	(l 10, c: 3)	FC
Tie_Tmr3	Simulation : [MAST]	(l 16, c: 4)	FC
Tie_Tmr4	Simulation : [MAST]	(l 25, c: 2)	R
		(l 23, c: 3)	FC
Tie_Tmr7	Simulation : [MAST]	(l 34, c: 2)	R
		(l 32, c: 3)	FC
UP_LS	Main : [MAST]	(l 36, c: 5)	R
		(l 50, c: 2)	R
		(l 63, c: 2)	R
	Simulation : [MAST]	(l 18, c: 6)	W
		(l 20, c: 6)	W
VLV_HGT	Main : [MAST]	(l 18, c: 4)	R
VLV_PRES	Main : [MAST]	(l 82, c: 2)	W
		(l 24, c: 4)	R
		(l 87, c: 5)	R
Wait_Tmr	Main : [MAST]	(l 28, c: 5)	FC

EF objects

Object	Referred into	Location	Usage
eq	Main : [MAST]	(l 4, c: 2)	FC
		(l 10, c: 2)	FC
		(l 16, c: 2)	FC
		(l 22, c: 2)	FC
		(l 28, c: 2)	FC
		(l 34, c: 2)	FC
		(l 40, c: 2)	FC
		(l 54, c: 2)	FC
		(l 58, c: 2)	FC
		(l 73, c: 2)	FC
		(l 85, c: 2)	FC
eq_dint	Main : [MAST]	(l 4, c: 2)	FC

Cross References

Object	Referred into	Location	Usage
		(l 10, c: 2)	FC
		(l 16, c: 2)	FC
		(l 22, c: 2)	FC
		(l 28, c: 2)	FC
		(l 34, c: 2)	FC
		(l 40, c: 2)	FC
		(l 54, c: 2)	FC
		(l 58, c: 2)	FC
		(l 73, c: 2)	FC
		(l 85, c: 2)	FC
ge	Main : [MAST]	(l 66, c: 2)	FC
ge_dint	Main : [MAST]	(l 66, c: 2)	FC
int_to_real	Main : [MAST]	(l 82, c: 2)	FC
		(l 79, c: 2)	FC
le	Main : [MAST]	(l 67, c: 5)	FC
le_dint	Main : [MAST]	(l 67, c: 5)	FC
move	Main : [MAST]	(l 5, c: 6)	FC
		(l 40, c: 6)	FC
		(l 11, c: 8)	FC
		(l 17, c: 8)	FC
		(l 23, c: 8)	FC
		(l 29, c: 8)	FC
		(l 35, c: 8)	FC
		(l 47, c: 8)	FC
ne	Main : [MAST]	(l 46, c: 3)	FC
ne_dint	Main : [MAST]	(l 46, c: 3)	FC

Cross References

Seq_Trans:

Variables or FB instances

Object	Referred into	Location	Usage
Sequence	Main <DFB> : [Seq_Trans]	(l 2, c: 4)	R
		(l 2, c: 25)	R
		(l 3, c: 18)	R
		(l 3, c: 5)	W
		(l 4, c: 26)	R
		(l 4, c: 5)	W
		(l 5, c: 8)	R
		(l 6, c: 22)	R
		(l 6, c: 9)	W
		(l 9, c: 30)	R
		(l 9, c: 15)	R
		(l 11, c: 6)	R
		(l 12, c: 8)	R
		(l 13, c: 8)	R
		(l 15, c: 1)	W
		(l 16, c: 1)	W
StepCtr	Main <DFB> : [Seq_Trans]	(l 9, c: 1)	FC