

EVO™ Settings for the Pump/PSI NAV Commander Module

Machines in 2020 and After

Use the settings below to start programming the rate controller and the EVO on your machine.

NOTE: The rate controller settings shown on the Viper 4 are different for each rate controller type.

Software version information

Rate Controller Type	Rate Controller Software Version	EVO System Software Version
RCM	21.2.0.3	1.1.55
PC2 Node	Any After 2.3.0.31	1.1.53 or After

Viper 4 Settings for the PC2 Node

User Settings:			
PWM High Side Drive:	Enabled (Checked Box)		
Product Settings:			
Valve Type:	PWM		
Min Pump PWM:	Record Rate Controller Setting		
Max Pump PWM:	Record Rate Controller Setting		
Standby Pump PWM:	Disabled (Unchecked Box)		
Response Sensitivity:	79 (Recommended Starting Point)		
Deadband:	2%		
Pressure Settings:			
Response Rate:	50 (Recommended Starting Point)		
Minimum Pressure:	10 PSI		
Maximum Pressure:	150 PSI		
Boom Pressure Cal:	Calibrate Appropriately (Turn the Cab box off and calibrate with the		
	pump shut off and the booms discharged completely)		
Advanced Pressure Calibration:			
Pressure Sensor:	Boom		
Pressure Sensor Range:	(0-250) PSI		



Viper 4 Settings for the RCM

Control Valve Setup			
Control Valve Type:	PWM		
Valve Response Rate (1-100):	75 (Recommended Starting Point)		
Control Deadband:	1		
PWM Setup			
PWM High Limit:	80		
PWM Low limit:	30		
Standby Pump PWM:	Disabled (Unchecked Box)		
PWM High Side drive:	Enabled (Checked Box)		
Pressure Setup			
Boom Pressure:	0-250		
Minimum Pressure:	10		
Maximum Pressure:	120		
Minimum Pressure Alarm:	Disabled (Unchecked Box)		
Maximum Pressure Alarm:	Disabled (Unchecked Box)		



EVO Display Settings

EVO Display Settings			
Main Menu			
Backlight:	5		
Alarm Volume:	3		
Turn Compensation:	On		
Rate Sync:	On		
Pressure Increment:	5 psi		
Advanced Menu			
System Gain:	5.0 (Recommended Starting Point)		
P-Gain:	5		
I-Gain:	0.25		
Nozzle Hold Delay:	0 sec		
Low Pressure Shutoff:	8 psi		
PWM Frequency:	10 Hz		
Valve Open Time:	15 ms with 7-watt valves		
	20 ms with 12-watt valves		
Units:	US (psi)		
Nozzle Valve Spacing:	Program per system configuration		
Module Location Menu:	Program per system configuration		
Section Size Menu:	Program per system configuration		
GPS Menu:			
	GPS Source:	CAN (with EVO GPS Transmitter Module)	
	Or 3 Source.	SERIAL (with 3 rd party GPS receiver)	
	Boom Type:		
	GPS to Axle:	Enter the distance the GPS is from the rear axle	
	Trailer Hitch to Axle:	0	
	Trailer2 Hitch to Axle: 0		
Pump/Servo Menu:			
	Servo Type:		
	Servo Min:	·	
	Servo Max:	Enter the Rate Controller Max PWM Pump Setting	
	Nozzle Cycle Time:	0.1 sec	
	Servo Hold Delay:	0 sec	
	Input Current Load:	Off	
Low Flow Menu:	Disabled		
PSI Module Menu:		CALD / III DOLMAYO	
	Sensor Module:	CMD (with PSI NAV Commander Module)	
		Trans (with Pressure Transmitter Module)	
	Sensor Offset:	0 psi	
	Sensor Volt Min:	1 volts	
	Sensor Volt Max:	5 volts	
	Sensor Pressure Min:	0 psi	
	Sensor Pressure Max:	250 psi	
	Pressure Command:	On Off	
	Navigation IMU:		