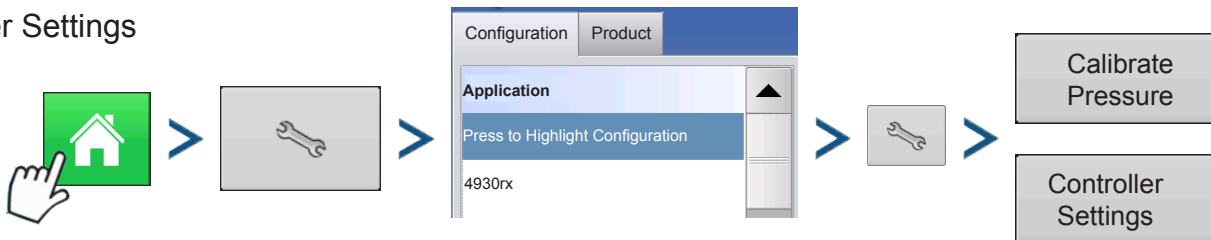


Create Configuration



Enter Settings



Calibrate Pressure

Pressure Sensor Calibration - Calibrate Main, Agitation or Auxiliary sensors

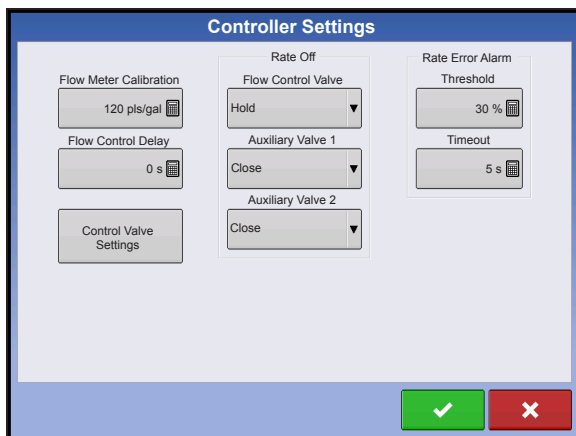
Flow Meter Calibration

pulses/gallon found on flow meter
(for Raven divide by 10)

Controller Settings

Flow Control Delay

used to eliminate unwanted flow corrections at the start of pass, typical setting = 1 –2 sec



Control Valve Settings

opens Control Valve Settings screen
(discussed on next page)

Rate Off: Flow Control Valve

Close: closes control valve when all booms are off
Hold: maintains control valve position when all booms are off

Rate Off: Auxiliary Valve 1 & 2

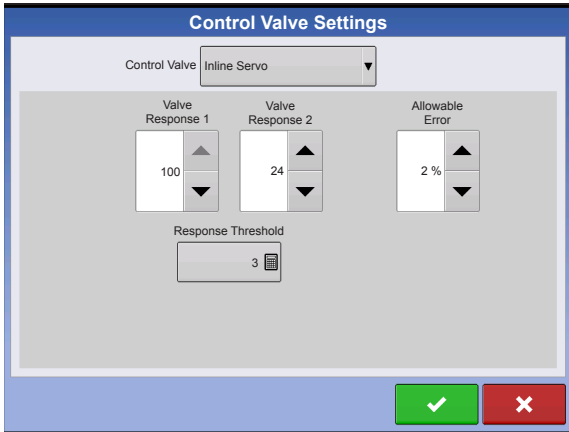
when boom sections are off, closes or opens an auxiliary valve Settings for up to 2 valves

Allowable Error

error allowed before flow rate changes

Threshold and **Timeout** - duration and error allowed before “Rate Not Responding” alarm

Inline Servo / Bypass Servo / Pump Servo / Calibrated Reflow / Ramsey Valve



Valve Response 1

fast speed of the valve, decrease to slow response time, default = 100%

Valve Response 2

slow speed of the valve, decrease to slow response time, default = 24%

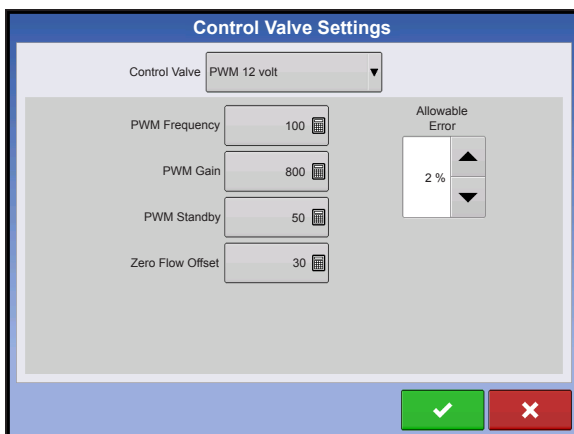
Response Threshold

point where system switches between using Valve Response 1 and Valve Response 2, increase to slow response time, default = 3 units/min

Allowable Error

error allowed before making rate control adjustments

PWM 12 volt / PWM ground



PWM Frequency

frequency valve is pulsed at, settings are from valve manufacturer, typical settings = 100-125 Hz

PWM Gain

decrease to slow response time

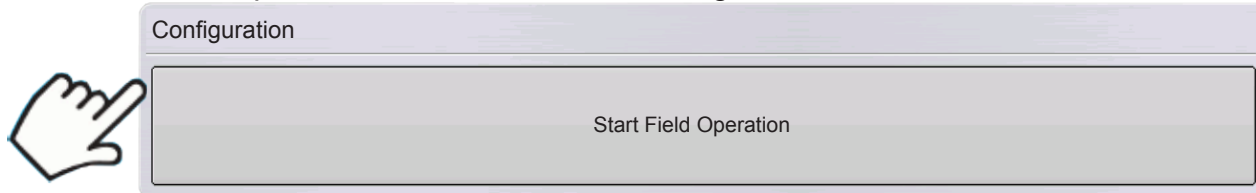
PWM Standby

duty cycle when booms are all off, setting must be greater than Zero Flow Offset, current PWM Duty Cycle can be viewed on Liquid Diagnostics screen while spraying

Zero Flow Offset

duty cycle used to start rotating the pump, if setting is too high pump will not turn off, default = 30%

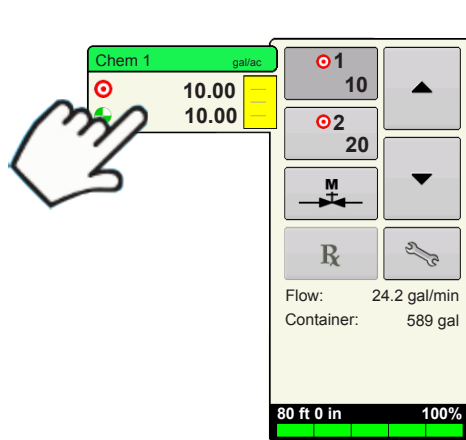
To start the Field Operation Wizard and load a configuration:



To view run screen:



Product Control Toolbox



To change values shown on Product Tab and in Product Control Toolbox, go to the next page where the Rate Control Settings screen is explained.



Target Rate

desired amount of product to apply

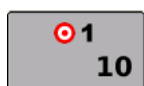


Actual Rate

actual rate of product being applied as determined by the flow sensor



Product in Tank



Target Rate #1 & #2

preset application rates that allow a quick change between rates



Manual Valve Control

allows operator manual control of valve



Prescription

allows rates to be determined by a loaded prescription



Up and Down Arrows

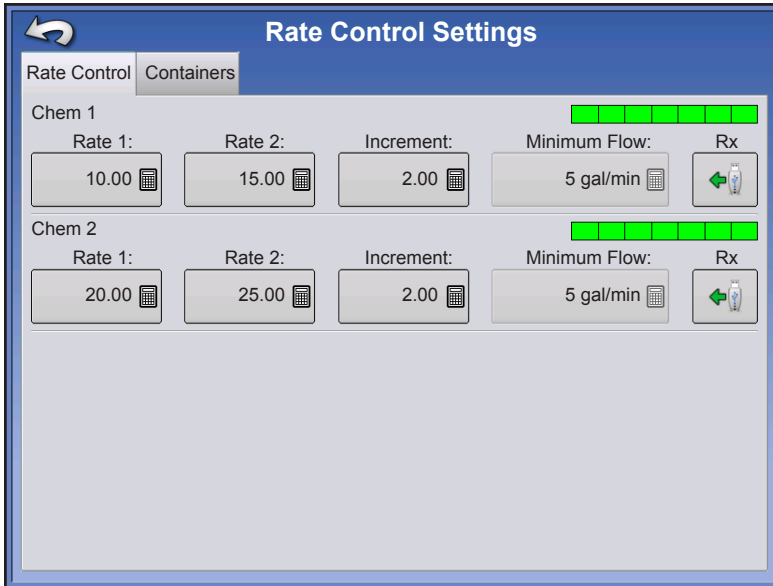
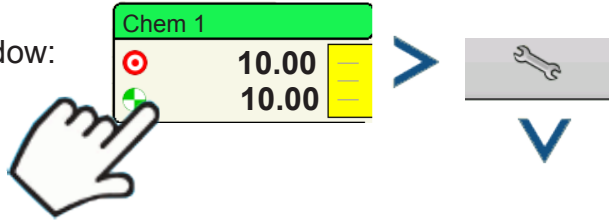
allow rates to be adjusted manually



Settings button

opens Rate Control Settings screen (explained on next page)

To access the Rate Control Settings window:



Rate 1 and Rate 2

allows operator to set desired target rates

Increment

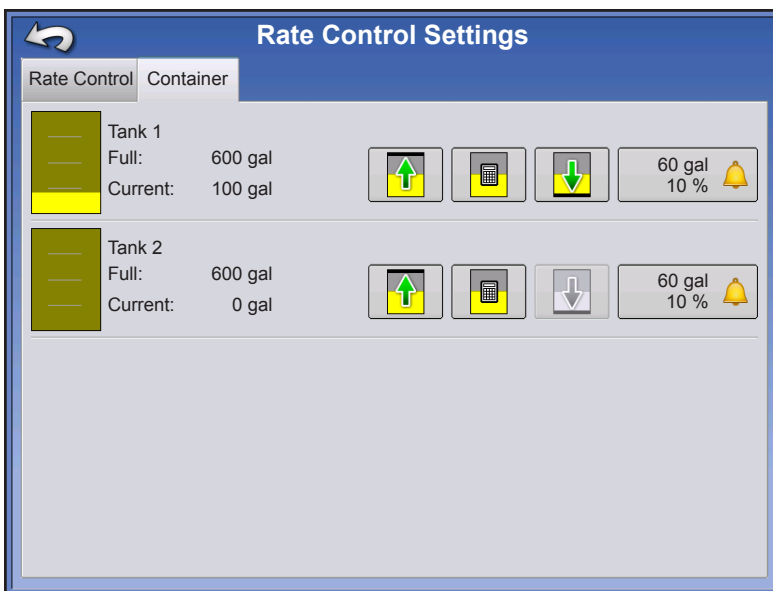
values when using up and down arrows in the Product Control Toolbox

Prescription

press to load a map-based prescription file

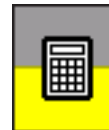
Minimum Flow

used to maintain a consistent spray pattern, calculate using tip chart. Lowest operating PSI/nozzle x number of nozzles=minimum flow



Tank Full

press to fill container



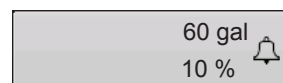
Tank Partially Filled

press to specify container amount



Tank Empty

press to empty container



Tank Alarm Settings

set % or amount remaining for low container alarm