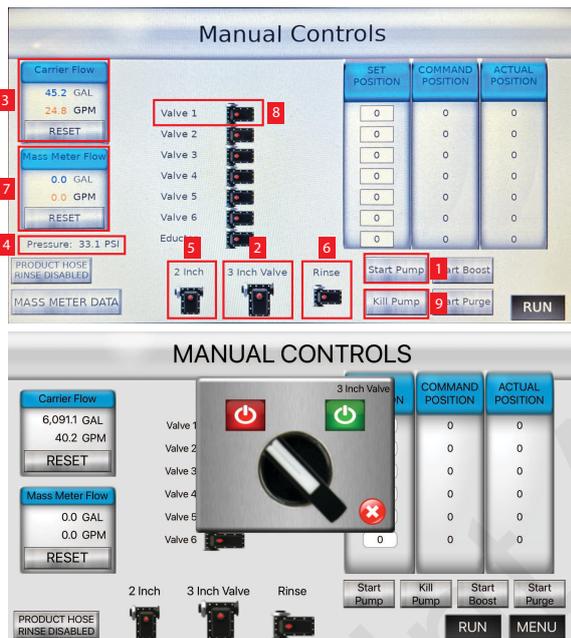


8.2. Initial Flow Testing

SurePoint Ag strongly recommends testing your system with water upon first time startup and at the beginning of each season to confirm there are no leaks in the system and to confirm your flow rates are in an acceptable range. These verifications can determine if you have inefficiencies in your plumbing, pinpoint poor performing components, or discover where blockages are that will need to be removed to ensure peak performance.

SurePoint recommends using at least 1000 gallons of water in your carrier tank and at least two totes of water connected to your product valves. (Advised to check each of your product valves with these two totes).

Figure 87. Manual Controls



From the Main Menu, press RUN > Manual Controls to initiate your water only test.

1. Start the pump
2. Open the 3" valve
3. Document the carrier flow of 3 inch valve: _____ GPM
4. Document the pressure of 3 inch valve: _____ PSI
5. Close the 3" valve (2), and open 2" Valve
Document the carrier flow of 2 inch valve: _____ GPM
Document the pressure of 2 inch valve: _____ PSI
6. Open the rinse valve
7. Document the mass meter flow of rinse valve: _____ GPM
Close the rinse valve.
8. Open product valve 1.
Visually confirm the tote volume is decreasing.
Document the mass meter flow of Valve 1: _____ GPM
Move liquid tote hoses to other product valves and repeat to confirm flow rates and product valve operation.
9. Press Kill Pump when complete.

8.3. Periodic Flow Test

On the previous page you should have your baseline flow rates from your initial startup testing. This page is your periodic comparisons against those baseline numbers. SurePoint recommends completing these tests annually, or anytime you suspect flow errors.

Baseline

Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Normal Flow

3" flow > 200 GPM
 2" Flow > 40 GPM
 Rinse Flow Mass > 25 GPM
 Product Flow Rinse > 20 GPM

*If normal flows are below values shown above, see Troubleshooting for more info

*All values shown with water, actual product will vary with viscosity

Periodic Test #1
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #2
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #3
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #4
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #5
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #6
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #7
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #8
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #9
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____

Periodic Test #10
 Date: M/D/Y __/__/____
 3" flow GPM _____ Pressure _____
 2" flow GPM _____ Pressure _____
 Rinse Flow Mass GPM _____ Pressure _____
 Product Flow Rinse GPM _____ Pressure _____