

System Start Up

Power UP!

1. Ensure Power supply is on
2. If you have electric pumps – water, fert, chemical etc
 - Put the H O A switches in the O position.
3. If you have an Engine
 - Lock out
4. Using the irrigation controller manually activate ALL of the outputs and ensure the outputs are working.

Open UP!

Open Flush valves on Mains, sub mains and flush manifolds.

Disconnect hydraulic command tubes from valves but keep valve in CLOSED position.

Re-Engage the HOA or remove Lock out on Pump

Run pump to open discharge to clear the well / intake before sending water to the filters

*If there is no discharge opening you might consider removing the filter covers – Be aware of Hazards!!!!

Flush!

Once the water source and pumps are flushed –

Stop pump, partially close open discharge, partially close manual valve on downstream side of filters

* Why?

Close any drains left open for winterization

- Reassemble filter covers removed for water source flush

Restart pump and slowly flush and fill mainline

- Throttle discharge vent back while keeping an eye on pressures!

- Using the downstream valve keep enough pressure on filters to backwash

Flush!

Keep Flushing!

- Flush longer than you think is sufficient!
- Built up scale needs to soften and then be scoured!
- Put your hands or a 5 gal bucket in the stream of flush water and check for debris.
- Ensure water is coming out of command tubes

When you are **ABSOLUTELY, POSITIVELY** and **WITHOUT A DOUBT SURE** it's flushed – flush some more!

Have you checked your filters yet?

Flush and Fill!

Once the main is flushed -

- Open a field valve, maybe more depending on pump capacity
- Slowly close the mainline flush valve redirecting the water to the opening zone valve

What about those filters? Are they cleaning?

Flush!

Keep Flushing!

- Flush longer than you think is sufficient!
- Built up scale needs to soften and then be scoured!
- Put your hands or a 5 gal bucket in the stream of flush water and check for debris.
- Ensure water is coming out of command tubes

When you are **ABSOLUTELY, POSITIVELY, WITHOUT A DOUBT SURE** it's flushed – flush some more!

Did I mention checking the filters?

Flush and Close!

Once the first block SUBMAIN is adequately flushed

Here is another opportunity to do the bucket test!

Close the sub main flush valves redirecting more water to the laterals and flush manifold.

You may need to close one flush manifold valve to get enough scouring / lifting velocity out of the other end.

Manage your zone pressure as you close flush outs!

Flush, Rinse & Repeat!

Go Block by block repeating those steps until all zones are complete.

Starting at Zone 1 verify pressure and flow rates.

- Repair any leaks – and flush again if needed
- Adjust pressure as needed
- Confirm flow rates

Reattach your Hydraulic command lines and put valves back in Auto position.

While the zones are running -

While the zones are “wetting up” you have an opportunity to check the operation of the pump station components.

Water Meter

Sustaining Valve

Fert pumps

Chemical pumps

Pressure Gauges

Filter backwash and PD switch