

## Priming and Vapor Lock

Each AgXcel fertilizer Application System (FAS) comes standard with a priming and vapor lock suspension system. The AgXcel FAS has 2lbs, 4lbs or 10 lbs check valve installed on every row. Check valves with an inline orifice allow the system to create back pressure for system

pressure operation and prevents liquid from bleeding when the system is in hold or suspend mode. This back pressure at times can create what is known as "vapor lock" in the following cases but not limited to:

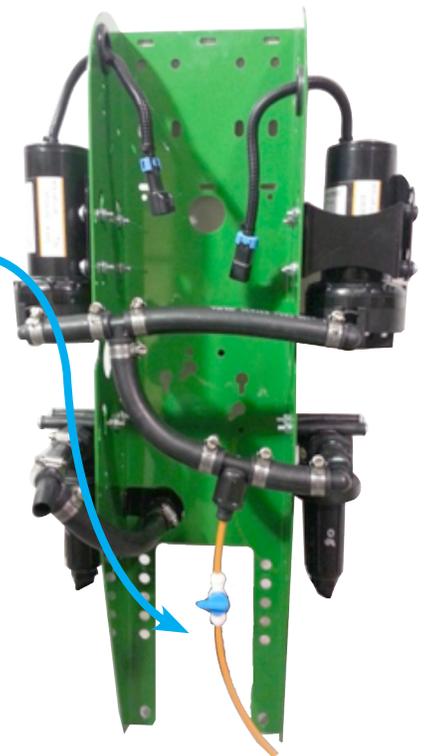
1. **System priming** – when you first initialize the system and introduce liquid because the system is air locked to prevent leaking and from sucking air, the initial air in the system becomes trapped. Early morning use when system has been sitting for a period of time, priming may be required.
2. **Tank filling** – at times with running in the field and the tank runs out of liquid and the AgXcel system may begin to suck air. This will create vapor lock and the pumps will not have the capability to expose of the air
3. **Loose Connections** – at times during use and or shipping, stainless steel clamps, hose imperfections, hose barb connections and sealants may at times allow for air to be sucked into the system. Many times this is not visible since the air leak is on the "draw" side of the pump, therefore there may not be any visible liquid discharge.

### How to Prime the System

- a. Turn on the FAS system
- b. Turn installed blue valve to the open position to allow air to escape
- c. Once liquid begins to flow from the ¼" tubing close the valve
- d. System should now function normally.
- e. These steps may be performed anytime vapor lock occurs

### IMPORTANT!

1. Make sure the ¼" tubing from the small valve is plumbed to a safe location down below the implement where liquid does not drip on the implement
2. Ensure that the blue valve is in the off position once the system is running back to normal



Pictured GX2 Dual Pump System – Blue prime valve is in the closed position



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