

# The SureFire Way

What’s in a name? Our name is our promise to you. We believe that providing certain, reliable and effective products and service is the only way to do business. It’s that simple.

We specialize in providing solutions for the control and application of liquid and dry fertilizer, seed, and chemical *The SureFire Way*.

**Certain-** We believe in looking beyond convention to be an innovating leader in a dynamic industry. Combined, our team brings 25 years of experience in equipment engineering, crop input application and customer service to your field. Our products and services have reached customers in 42 states and internationally.

**Reliable-** We believe in providing you not only solutions, but reliable communication and service as well. Whether it’s a follow up phone call or an on site install, the SureFire team has you covered. We pride ourselves on developing relationships with our customers and strive to not only meet expectations – but to exceed them.

**Effective-** We believe in farming smarter, not harder. From simple, standard single-product liquid fertilizer application systems, to complex, custom-designed systems, SureFire Ag is committed to helping you farm the way you want.



## Complete Systems

Complete systems make your life easy. SureFire provides a complete system; wiring harness, pump, flow meter, and manifold and distribution. The components within each group that meet your needs are custom configured and assembled at the factory. No longer do you have to rely on multiple suppliers combined with “trial and error” to get your system to the field.

## Anhydrous Ammonia

Need to apply anhydrous on a strip-till or side-dress machine? Complete NH3 application systems provide extreme accuracy in both application rate control and manifold distribution. Heat exchangers, or “cold flow systems” as they are commonly referred to, are manufactured with stainless steel components. SureFire exclusively uses the Squibb Taylor Eqa-Flow Manifolds to provide the highest degree of row-to-row distribution accuracy.

## How to Order

SureFire Application and Control Experts (ACE) will use their knowledge and experience to create a custom configured system to meet your specific needs.

1. Specify your application needs
  - a. Type of Implement (Planter, Strip-till, grain drill/air seeder, etc)
  - b. Model of Implement
  - c. Maximum and minimum application rates
  - d. Operating speed (MPH)
  - e. Tank locations (Implement, Tractor, Pull-behind)
  - f. Sections
  - g. Ground application method
2. Call a SureFire ACE to discuss
3. SureFire ACE will configure and quote your system
4. Finalize configuration and place order
5. Systems ship in 2-3 weeks



## Fertilizer Application Systems for GS2™ Rate Control



- PWM Hydraulic Valve
- Tower Pump System
- PumpRight System
- Ion Flow Meter

Distributed By:



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# The Perfect Combination

## GS2™ Rate Control Compatible

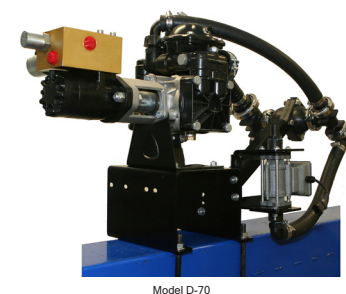
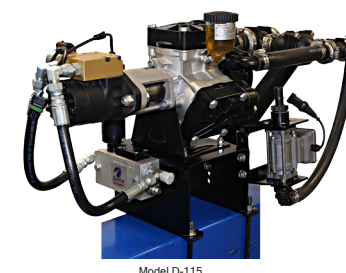
SureFire application and control systems are fully compatible with GS2™ Rate Control. SureFire has designed and field tested all-types of application systems; liquid fertilizer, anhydrous ammonia, herbicides, fungicides, and pesticides. If you need to apply it on your farm, SureFire will configure a system to meet your needs.

SureFire systems are custom configured to meet the individual needs of your farm. The Tower, 12-volt electric pump system, is ideal for in-furrow starter and other low-volume applications. PumpRight variable speed hydraulic drive pumps provide high-volume liquid application on planters, strip-till machines, and side-dress applicators.



## Pulse Width Modulated (PWM) Hydraulic Valve

The PWM “control valve” is a complete motor mounted assembly which minimizes external plumbing. PWM solenoid valve regulates oil flow and turns off flow when commanded to by controller. The valve is compatible with power beyond hydraulics with addition of load sense line to the tractor. Use of power beyond hydraulics increases efficiency and doesn't require a hydraulic remote.



## PumpRight System

PumpRight pumps are the “Cadillac” of application pumps. They provide the highest degree of reliability, rapid rate response, and require minimal maintenance. PumpRight pumps use a motor mounted PWM “close” hydraulic flow control valve.

**Positive Displacement** - One revolution of the pump shaft results in a specific volume of flow.

**Suction** - PumpRight pumps develop suction and thus are self priming. There are no seals to ruin and it is impossible for the system to develop an air lock. Implement mounted pumps will easily pull liquid from tractor or trailer mounted tanks.

**Easy Installation** - PumpRight pumps are designed for easy installation and setup. The complete pump, with direct-couple hydraulic motor, hydraulic flow control, and flow meter are affixed to the mounting bracket at the factory. The provided mounting bracket easily attaches to tubes from 4” to 8” wide.

## Manifold and Distribution

**Flow Indicators**- Manifolds provide visual indication of plugged rows. The manifolds are modular allowing for configuration to meet the plumbing and sectional needs of your implement. Mounting brackets and check valves are also included in manifold and distribution kits.



**Metering Tube**- Used in low volume applications with products that have a large amount of particulate in the solution. Metering tube provides a larger passage way diameter than a comparable orifice. For a 5 GPA rate on 30” rows, a size 0.046” orifice would be used. For the same rate a 0.130” meter tube that is 8’ long would be used—a 2.8 times larger opening. The size of the opening combined with the length of tube creates the system back pressure in the metering tube system.

## Tower Pump System

Tower Pump System is factory assembled and shipped to you complete. This system is ideal for low-volume in-furrow starter or pop-up application.

Tower systems are configured with 1 or 2 12-volt electric diaphragm pumps. The pumps are designed for rugged agricultural applications. Both the top and bottom of the motor housing are externally sealed to keep foreign materials out. Enclosed in the motor housing are two moisture-absorbent desiccant bags to absorb condensation moisture, thus reducing rusting of the brushes. Inlet valves are made of sataprene—a long wearing material suited for fertilizer.



Front

## Sectional Control

SureFire application systems are compatible with Swath Control Pro™. Dividing your implement into multiples section reduces over application resulting in significant cost savings. The PumpRight quickly responds to sections being switched on/off. SureFire recommends a minimum of 4-row per section.

## Ion Flow Meter

Extreme accuracy and fewer problems make the Ion Flow Meter an integral component of a SureFire System. The meter has no moving parts which means no wear or jams as is the case with traditional turbine-type flow meters. By measuring ions, the flow calibration is constant, eliminating the need for multiple calibration constants.

**High Resolution** - Most traditional turbine-type meters produce 75-200 pulses/gallon. The Ion Flow Meter produces 11,000-22,000 pulses/gallon, depending on meter size and capacity.

**Accuracy** - High resolution results in extreme accuracy, especially at low flow rates (less than 2 GPM)

**Reliability** - No moving parts eliminates wear and jamming/sticking of the turbine.



*“The SureFire Ag products allow us to leverage and integrate the power of John Deere AMS components and automation technology to accomplish variable rate applications and sectional on/off control of high value inputs to achieve the greatest possible return-on-investment in a short amount of time. Their products are high quality, accurate, and reliable and are backed by an organization intent on delivering a positive customer experience.”*

**Justin Childears**  
Director Precision Farming Services  
21st Century Equipment

