Fertilizer Application Systems
Row Crop Planters

Custom configured systems designed to keep you in the field when conditions are right.

Featuring
LiquiShift®
Variable Rate Technology
For High Speed Planters
Integrate with Your Control Technology

SureFire Liquid Application systems seamlessly integrate with the technology in your cab. The SureFire system harness plugs directly into the liquid control module available for your platform. The SureFire manual has step-by-step instructions, complete with screen-shots of each setup page, showing you exactly what goes in every box.

SureFire Systems are custom configured to meet your specific needs. Our Application Control Experts will take into account all the variables of your fertility program including:

- Implement Size
- Row Spacing
- Application Rate
- Desired Placement
- Tank Location
- Liquid Product to be Applied

SureFire Integrates with: Ag Leader Direct Command | Trimble Field IQ | Case AFS AccuControl | All120/TopCon X30 with Working Set Master Module

Fertilizer Systems Components

Based on these variables the correct solution will be configured from the following system component options:

**Pumps**

Whether your scenario calls for a low-volume Tower or a PumpRight, the pumping system will arrive completely assembled, including the flow meter, ready to be mounted on your implement. For most planters, model specific brackets are available to make mounting fast and easy.

**Tower**

SureFire’s 12 volt electric pump solution. The Tower is ideal for in-furrow and low volume applications on 40’ and smaller implements at a maximum speed of 6 MPH. The 12 volt electric pumps work well for these size of planters and low-volume applications. When the scenario requires capacity greater than The Tower can provide, the SureFire PumpRight is recommended.

**PumpRight**

Diaphragm style pump with hydraulic motor drive and PWM variable speed control valve. PumpRight pumps are available in four sizes – 15, 25, 35 and 55 GPM output.

Key features include:

- Positive displacement results in predictable output
- Smooth, consistent output over entire working range of the pump
- Self-priming
- Run-dry – No seals to fail
- Maximum hydraulic oil use of 10 GPM with less than 600 PSI drop
SureFire E-Mag Flow Meter Technology
SureFire pioneered the use of electromagnetic flow meters in liquid application systems nearly 10 years ago. The SureFire E-Mag meter has no moving parts which eliminates the common failures of most mechanical flow meters. Key features include:
- Accuracy – Electromagnetic technology provides greater accuracy, especially across liquids of different weights, specific gravities, and viscosities.
- High Resolution – 20-25 times more pulses per gallon than most other meters

Section Control, Manifold, and Distribution
Everything from the pump to the placement device. Based on your scenario and preferences the best options will be selected.

Metering Tube is used in place of a traditional orifice to provide even distribution to each row. In a typical in-furrow application scenario a 0.030” orifice is replaced with an 8’ length of metering tube having a passageway of 0.096”. The combination of length and diameter equalizes flow to each row. Metering tube virtually eliminates the problem of plugged orifices.

Orifices can be utilized to meter flow to each row.

New MultiFlow Row Monitoring System provides in-cab digital monitoring of every row. A 10-200 oz./min E-mag flow meter accurately measures the flow rate of each row and alerts the operator of a plug or variance outside the set range.

Traditional visual “float-ball” Flow Indicators provide low-cost confirmation of flow.

Placement Device
Differences in soil conditions with geography and farming practices result in many considerations in selecting the best placement method. A SureFire system will accommodate your desired placement method.

SureFire can provide a variety of in-furrow and surface-band placement methods as part of a complete system configuration or SureFire will provide plumbing to connect to the placement device of your choice.

LIQUISHIFT®
Variable Rate Technology
When your scenario requires a flow range beyond what a single orifice or metering tube will allow, LiquiShift™ is the solution. This patent pending technology provides a turn down ratio of 10:1 and maintains a solid stream placement through the entire range.

Key Uses
- High Speed Planters
- Prescription Variable Rate
- Field to Field Rate Changes

Tanks
Planter mounted tank kits are available for many makes and models. Contact SureFire to explore available options for your planter.
Scan QR Code to go directly to Request-A-Quote Form

How to Order

Option 1
Locate your local SureFire reseller. SureFire has an extensive network of local dealers. Ask your sales person or parts representative for a SureFire system.

Option 2
Unsure of your SureFire Dealer? Go to surefireag.com, press the “Request a Quote” button at the top of the page. Complete the questionnaire and a SureFire representative will contact you to discuss your application needs and connect you with a dealer in your area.