

Step	Start	Stop	GPA
1	0	30	9
2	30	150	11
3	150	270	7
4	270	359	5

GPA (Gallons Per Acre)

Application Example: Automated Variable Rate Fertilization®

With the reflex® System, an operator can quickly and precisely control the amount of fertilizer applied to the individual sections of the field. Or, the reflex® can interface with existing VRI controllers that have a fertilization prescription output.

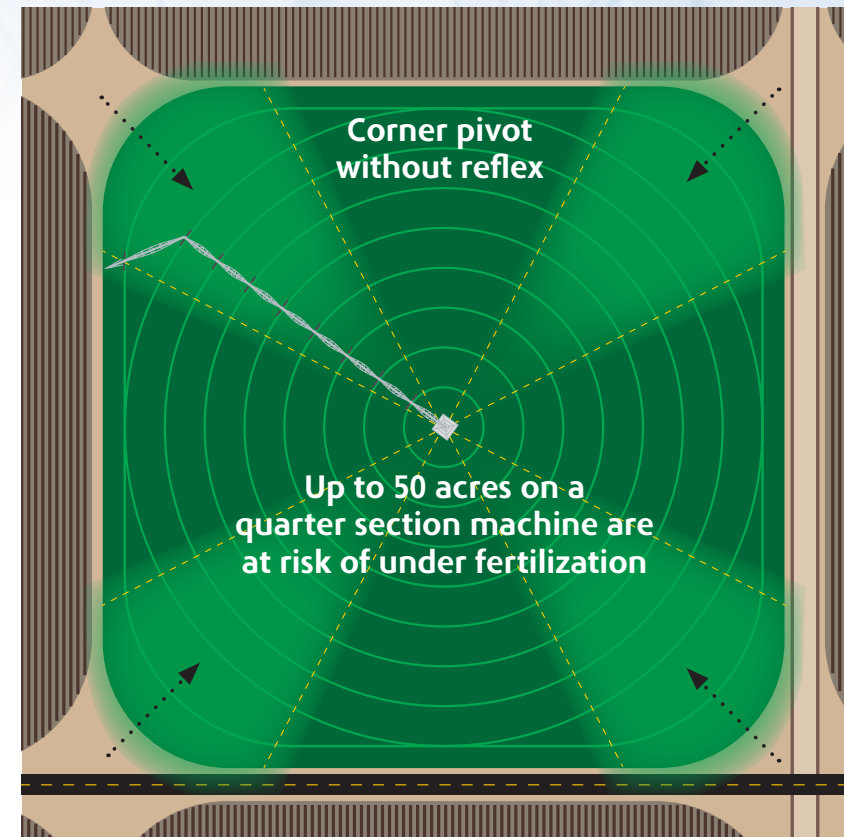
reflex® Proportional Injection Systems

Even greater precision and control in variable rate irrigation systems.

reflex® Features

- ▶ Remotely vary the injection rate proportional to flow
- ▶ Turn pump On/Off remotely
- ▶ Enables Flat Rate Fertilizer application during variable rate irrigation
- ▶ Enables Universal Variable Rate Fertilization®
- ▶ Flow rates are sensed automatically and rates adjusted

Application Example: Corner System With Uneven Fertilizer Coverage



Problem: Zones lacking sufficient fertilizer coverage

When the swing arm extends to cover the additional acres in the corners, the overall crop in that area is under fertilized, resulting in lower yields.

Solution: reflex® Proportional Injection Systems

The addition of a reflex® Proportional Injection System automatically increases the fertilizer injection rate for the increased flow through the irrigation system when the swing arm is extended.

The result is even, sufficient fertilizer coverage over every square foot of your field. When you add a reflex system to your corner pivot irrigation system, the yield increases are dramatic.

Other applications include:

Corner pivot irrigation systems, variable rate irrigation systems, drip irrigation, golf courses, athletic complexes, and zone-based variable rate irrigation systems.



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reflex®
Intelligent injection control
for Variable Rate Fertilization®



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reflex® Intelligent injection control for Variable Rate Fertiligation®

In agriculture today, precision application of fertilizers and chemicals is becoming increasingly important. Irrigation applications are becoming more variable based on the crop, soil type, pivot speed and/or position, corner swing arms, and seeding rates. Therefore, it is crucial that you achieve accurate injection by using a system that can respond to these changing conditions. Introducing reflex®, the Intelligent Injection Control system from Agri-Inject®.



The reflex responds immediately to irrigation changes. Technology in the reflex panel allows the injection pump to be precisely proportional to the flow of the irrigation system. The changing water flow rates are sensed automatically and immediate adjustments are made to the injection pump rate to ensure that directly correlates to your prescription.

Key Product Features

Used for: Corner pivot irrigation systems, variable rate irrigation systems, drip irrigation, golf courses, athletic complexes, and zone-based variable rate irrigation systems.

- ▶ Varies the injection rate proportional to flow
- ▶ Enables Variable Rate Fertiligation®
- ▶ User-friendly control panel with backlit touch screen
- ▶ All simplex or duplex pump configurations available
- ▶ Acid and chlorine compatibility
- ▶ Compatible with various flow meters
- ▶ Available in three phase, 240 or 480 volts, and single phase 115 or 230 volts

Variable Rate Fertiligation®

Definition: The utilization of chemigation injection equipment, namely electronic and power controllers, to deliver precise amounts of chemicals to selected areas of a crop. The technology is utilized for metering liquid fertilizer, insecticides, herbicides, fungicides, soil amendments, pH modifiers, and wetting agents into agricultural irrigation distribution lines.

As the pioneer of Variable Rate Fertiligation®, Agri-Inject has perfected the VRF® technology with the reflex® system, delivering precise application of chemicals that directly coincide with your flat rate or prescription program.

- ▶ The reflex panels are engineered to interface with existing VRI controllers that have a fertiligation prescription output.



- ▶ Setting up the reflex panel to work properly with virtually any type of irrigation system is simple. The touchscreen panel allows the user to configure the system for flow settings, sensor information, injection pump settings, and more. In less than five minutes, reflex is programmed and ready to work.

- ▶ Rugged, IP67 power connectors (incoming and outgoing). Simple to operate. Quick connect and positive locking. Designed/rated for the appropriate power voltage and amp loads.



- ▶ With reflex technology, the changing irrigation flow rates are sensed automatically and adjustments are immediately made to the rate of the injection pump to ensure consistent, fertilizer dosing.

Pump Sizes

- ▶ The reflex works with any Agri-Inject metering pump from 0.7 to 310 gph.



Reference warranty details at www.agri-inject.com



- ▶ Without reflex, up to 50 acres on a quarter section corner machine are at risk of up to 40% under-fertilization.

- ▶ Rugged, water-proof, quick connectors allow simple connection with a flow sensor and/or a VRI controller.

- ▶ The NEMA 3R enclosure is UL 508A listed and built to industrial control panel standards. Finished in sunlight reflective white for optimal cooling and features a tamper resistant entry door.



- ▶ The rugged Nomad sealed base provides a solid foundation and keeps unit out of the dirt for trouble-free operation.

Global technology

Since 1983, we've distributed metering pumps to every corner of the globe utilizing irrigation to raise sustainable crops. The engineered reliable design make it ideally suited for years of service.

Environmentally safe

Utilizing a high-quality fluid injection pump enables you to precisely provide what your crop needs while reducing the environmental impact. With Agri-Inject equipment, there are other benefits of reduced drift and reduced labor and energy costs. Agri-Inject also offers containment options to provide even further assurance of environmental safety.

Economical to operate

Lower operating costs at high volumes make the mRoy A/P/B and MacRoy G Pumps especially effective for applying fertilizer, chemicals, and other concentrates through high acreage pivot irrigation systems.

Future of precision agriculture

Today we're on the doorstep of dynamic growth of precision farming within the global agricultural industry. Agri-Inject products are perfectly in sync with precision agriculture. They are the cost effective way to apply precise amounts of fertilizer and crop protection products at precisely the right times during the growing season. That's a sound "precision strategy" for improving yields and ensuring crop health for many years to come.

Where to buy

Agri-Inject products are distributed globally through an authorized dealer network. Each dealer has a solid reputation for responsive service and technical support. When you're irrigating, you can't afford to wait for answers. You'll find the support you need from Agri-Inject is just around the corner.