




AGRI-INJECT®

Because irrigation can deliver more than just water.®

► Fluid injection systems

Precise control over what happens
in your fields.



soil amendments
fertilizer
insecticide
wetting agents
fungicide
herbicide
acid products

► Product Guide

970-848-5336 | www.agri-inject.com

Your irrigation system should do more than just water your crop.

With Agri-Inject®, it does . . . Precisely.



Agri-Inject®: A pioneer in fluid injection technology since 1983.

Applying fertilizer and crop protection products through irrigation systems with Agri-Inject® fluid injection technology just makes sense – economically, agronomically and environmentally. You can put Agri-Inject technology to work in virtually any field – from row crops to vegetables, from fruit to nuts, from turf to hay.

With fluid injection technology from Agri-Inject, you can:

- ▶ Apply a wide range of products through your irrigation system: fertilizer, insecticides, herbicides, fungicides, soil amendments, acid products, wetting agents and more.
- ▶ Reduce costs of chemicals, fertilizer and application labor for bottom line returns.
- ▶ Manage for better plant health and optimum yields through season-long application at levels that make sense economically – and for your plants.
- ▶ Achieve greater control of timing, input costs, application costs and response to crop threats.
- ▶ Be confident that you are being environmentally responsible and improving safety on your farm.



Intelligent engineering and rugged construction.

Agri-Inject® systems are smartly designed to be simple to install and incredibly precise and reliable. At the same time, they are built to stand up to the elements and less-than-ideal conditions that are standard in the field.



One-of-a-kind, high accuracy pumps you can count on.

Diaphragm pumps manufactured exclusively for Agri-Inject are used to power our systems. Agri-Inject pumps are hands-down the most accurate, reliable and long-lasting pumps available – and you can't get them anywhere else. If you don't see the signature yellow pump, it's not an Agri-Inject system!

Complete systems, ready to install.

It doesn't matter which Agri-Inject system you choose – every system comes with everything you need including our patented Mister Mist'r® Injection Check Valve Technology, discharge hose, filter, switch, oil for your pump, calibration instructions, gloves – it's all there!



Proven over the long haul.

Agri-Inject has been a leader in fluid injection technology since 1983. We have a track record of reliability, precision, innovation and results spanning hundreds of thousands of acres and dozens of crops across six continents.

Design details that make a difference.

After three decades of leadership in fluid injection technology, we've built in features that improve performance, convenience and long life. Cone-shaped tank bottoms for complete emptying and easy wash out. Easy-fill tank openings. Domed tank tops that direct rain away from the tank. Wide, rugged bases that prevent tipping. And many more...



A network of dealers who know their stuff.

Your local Agri-Inject dealer is your source for fluid injection technology from Agri-Inject. Your authorized Agri-Inject dealer is well versed in the benefits, installation and service of your system. They are trained to work with you to select the Agri-Inject technology that matches your operation and your objectives.



Exclusive technology you simply can't get anywhere else.

Mister Mist'r®

Our patented **Mister Mist'r® Injection Check Valve** technology sets the industry standard for injection innovation. Its four-way spray design essentially atomizes the injected product and evenly distributes it into the irrigation water flow. The moving parts are continually cleaned by the moving water. Available in corrosion-resistant plastics or 316 stainless steel for high volume applications.



Mister Mist'r has been approved as a chemigation check valve by state and federal regulatory agencies, so you are assured that your Agri-Inject® system is in compliance no matter where you are!

ApplyYourself® App

Our exclusive **ApplyYourself** smart phone application comes pre-loaded with the complete range of injection pumps from Agri-Inject. This app allows a grower to easily enter the specific data points about their application (field size, irrigation timing, injected liquid type and rate) then it outputs a ranked list of the best pumps that would fit that application.



ApplyYourself makes calibration a snap. Select your pump, enter in the basic details of your application, and this application immediately gives the proper setting of the pump and the amount of liquid.

reflex® Proportional Injection System

Irrigation applications have become increasingly variable based on the crop, soil type, sprinkler speed, corner swing arms, and more. Therefore, it is crucial that you achieve accurate injection by use of a system that can respond to these changing conditions. Introducing **reflex®, the Intelligent Injection Control System** from Agri-Inject.



Exclusive 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 adjustments are immediately made to the rate of the injection pump to ensure consistent coverage over every square foot of your field.

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

Mister Mind'r®

Our exclusive **Mister Mind'r® Clean Key** features two different key sizes, allowing it to be used on both the "Classic Mister Mist'r" and "Ultra Mister Mist'r" injection valves. All that is normally required during a Mister Mist'r inspection and maintenance is to remove and disassemble the valve using the Mister Mind'r key; rinse it in clean water, and reassemble it, making sure it seats against the seal. It's as simple as that.



10 + 1 ways an Agri-Inject® System optimizes your pivot operation.

1 Perfectly in sync with precision agriculture.

Agri-Inject® is all about precision – applying the precise amount of fertilizer and crop protection products at precisely the right times during the growing season. That's a sound strategy for improving yields and ensuring crop health all season long.



2 Reduced fertilizer and chemical costs.

With Agri-Inject, you can apply less product without sacrificing results, because you're able to apply more precisely and completely across the field.

3 Versatility and flexibility.

Agri-Inject systems are available for a wide variety of applications, crops, situations and products – and duplex systems can be used for a number of different products.



4 Improved effectiveness of inputs.

Many crop protection products, including fertilizer, have been proven to be more effective when applied through irrigation. With Agri-Inject, you can use less fertilizer or chemical without losing effectiveness.

5 Simple, easy calibration.

You don't need an engineering degree to operate an Agri-Inject system. Calibration is extremely easy, accurate, intuitive and repeatable.

6 Environmentally sound.

Precise application of chemicals and fertilizers can provide what your crop needs while reducing the environmental impact. When compared to aerial application, an Agri-Inject system dramatically reduces drift, labor and energy costs. Agri-Inject also offers containment options to provide even further assurance of environmental safety.



7 Uniform coverage.

With an Agri-Inject system, you get complete and uniform coverage across your entire field. No skipped rows. No "hot spots." If it's getting water, it's getting fertilizer or chemical – dispersed evenly and completely with your Agri-Inject system.

8 Improved safety.

Handling of chemicals is greatly reduced with an Agri-Inject system, so operator exposure is minimized and the chance for spills is diminished.

9 More timely than custom/aerial application.

And less expensive. No more waiting for the spray plane. You can apply what your crop needs, when it needs it – and do it at a lower cost per acre. Unlike aerial applications, there is no need to shut off your pivot system and stop watering to apply product.



10 Cost savings year after year.

Your one-time investment in an Agri-Inject system pays you back application after application, field after field, season after season – through reduced chemical and fertilizer costs, increased efficiency and crop performance.

10 + 1 Outstanding service and support.

Beyond the 10 Reasons, Agri-Inject is known far and wide for its responsive service and technical support. We work closely with you and your authorized Agri-Inject dealer to address any concerns, questions or warranty issues. When you're irrigating, you can't afford to wait for answers. We get that.



Eliminate the guesswork
in selecting and calibrating
injection pumps for your
entire operation.

APPLY ▶ yourself

The Fluid Injection Assistant

Exclusively from  **AGRI-INJECT**
Because irrigation can deliver more than just water.™



Custom List of
Your Pumps

Pump
Calibration
Solution

Five Simple
Sizing Questions

Ranked Pump
Options

Timer Function
with Audio and
Visual Alerts

Recommended
Pump Photo
and Details

ApplyYourself comes pre-loaded with the complete range of injection pumps from Agri-Inject®. This app allows a grower to easily enter the specific data points about their application (field size, irrigation timing, injected liquid type and rate) then it outputs a ranked list of the best pumps that would fit that application.

ApplyYourself makes calibration a snap. Select your pump, enter in the basic details of your application, and this application immediately gives the proper setting of the pump and the amount of liquid product that pump should deliver during calibration.

To download a free version of the
ApplyYourself App, simply visit

www.agri-inject.com/app

fill out the form and quickly download
the app to your device.

Fluid Injection Equipment

If it isn't a Mister Mist'r®, it's just a poor imitation!

Our patented **Mister Mist'r® Injection Check Valve** technology sets the industry standard for injection innovation. Its four-way spray design essentially atomizes the injected product and evenly distributes it into the irrigation water flow. The moving parts are continually cleaned by the moving water. Available in corrosion-resistant plastic or stainless steel for high-volume applications.

Mister Mist'r also serves as a positive two-way check valve to prevent backflow of water into the system tank — and to prevent accidental leakage of chemical into the mainline water stream during shutdown.

Mister Mist'r has been approved as a chemigation check valve by state and federal regulatory agencies, so you are assured that your Agri-Inject® system is in compliance no matter where you are!



Our exclusive **Mister Mist'r Key** makes maintenance a snap.

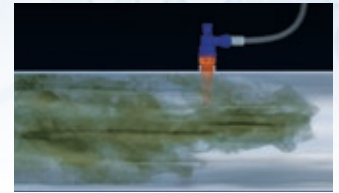
(U.S. Patent No. 6,230,982)

Competitive Injection Quill



An ordinary check valve essentially “squirts” product into the water flow with little dispersion at the point of injection.

Patented Mister Mist'r®



The patented Ultra Mister Mist'r® has a four-way spray that effectively atomizes the inject product immediately for even distribution throughout the irrigation water flow.

The Mister Mist'r is available in a wide range of models for a variety of applications.



Bleeder Valves



Agri-Inject bleeder valves are used in combination with the Mister Mist'r Injection Check Valve as a means of bleeding air from the discharge tubing to aid in pump priming. The valves also provide a way to safely bleed off pressurized fluid for service, maintenance, mobility and hose disconnection.

Insectigator® Systems

A pivotal strategy in managing pests.

Used for: Precise application of low volumes of insecticides and fungicides to quickly address crop threats.

Tank Capacities: 10, 20, and 30-gallon tanks available. All are engineered to fully mix chemicals and completely drain.

- ▶ Easily fitted to most center pivot, linear sprinkler, drip and solid set irrigation systems
- ▶ Agitation is standard on all sizes
- ▶ Engineered to prevent damage from corrosive chemicals
- ▶ Lightweight with molded handles for easy transport from field to field
- ▶ Available in three phase, single phase and 12-volt DC and most international electrical configurations



Standard Chemigation Systems

Precise application of crop inputs as you irrigate.

Used for: Applying fertilizer, herbicides, insecticides, fungicides and other fluids to a wide variety of crops.

Tank Capacities: 70, 110, and 200-gallon tanks available. All are engineered to fully mix chemicals and completely drain.

- ▶ Easily fitted to most center pivot, linear sprinkler, drip and solid set irrigation systems
- ▶ Quickly and easily moved from one field to another
- ▶ Agitation is standard on all sizes
- ▶ 60 and 90-gallon containment units available for added environmental safety
- ▶ Available in three phase, single phase and 12-volt DC and most international electrical configurations



70-Gallon Unit

110-Gallon Unit

200-Gallon Unit

Containment Units



60-Gallon Unit
(Lid not shown)



90-Gallon Unit
(Lid not shown)

Large Capacity Chemigation Systems

For bigger jobs and heavier products in suspension.

Used for: Large-scale application of highly viscous – even slurried – materials through irrigation systems, including gypsum, potash, calcium compounds and other organic soil amendments.

Tank Capacities: 300, 400, 500 and 600-gallon tanks available. All are engineered to fully mix chemicals and completely drain.

- ▶ Easily fitted to most center pivot, linear sprinkler, drip and solid set irrigation systems
- ▶ Keeps even the heaviest materials in suspension for uniform application
- ▶ Powerful pump and agitation system for high performance and long life
- ▶ Agitation is standard
- ▶ Available in three phase, single phase and 12-volt DC and most international electrical configurations



400-Gallon Unit

BoundaryRider®

A preventive perimeter to keep pests out of your field.

Used for: Applying insecticides along the outer edge of your fields to prevent inbound pest infestations.

Tank Capacity: 10 gallons

- ▶ Easily mounts on the outer towers of center pivot irrigation systems
- ▶ Applies pesticides along edge of field and vulnerable pivot corners
- ▶ Treats only those acres that need it
- ▶ Designed to pump concentrated chemical without dilution or mixing
- ▶ Extremely accurate metering pump
- ▶ Available in single phase only, which ties into the 110VAC circuit on the center pivot
- ▶ The BoundaryRider can be used for additional applications that protect the perimeter of your high value crop. Ask your dealer for details.

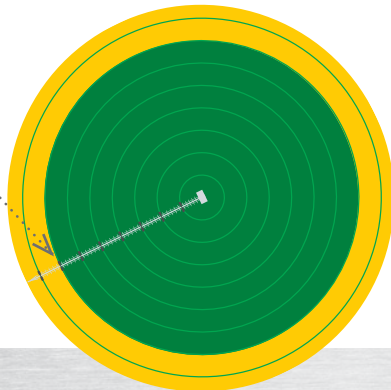


BoundaryRider® Application

BoundaryRider mounted on the Next to Last Tower

The Protection Ring

BoundaryRider precisely applies a protective ring or insecticide around the perimeter of your high value crop.



Fertilizer Injection Systems

Feed your plants exactly what they need, precisely when they need it.

Used for: Precise and complete application of liquid fertilizers through irrigation systems, allowing you to care for your crop throughout the growing season.

Pump Sizes: MRoy A/P Series: 5.6, 11, 18, 30 gph simplex; 18/18, 30/30 duplex
MacRoy D Series: 25, 50 gph
MacRoy G Series: 55, 110, 150 gph
MRoy B Series: 85 gph simplex; 85/85 duplex

- ▶ Easily fitted to most center pivot, linear sprinkler, drip and solid set irrigation systems
- ▶ The system pumps fertilizer from a bulk tank and injects uniformly into irrigation stream
- ▶ Easily adjustable while running
- ▶ Precise metering and pumping accuracy with the simple turn of a micrometer knob
- ▶ Duplex configuration available with independent control of two pumping heads from a single system (MRoy only)
- ▶ Acid compatible configurations available. Call for options.
- ▶ MRoy A, P and B Series motors can run in either direction
- ▶ Available in three phase, single phase and 12-volt DC and most international electrical configurations



Fertilizer Injection Systems (continued)

- Pump Sizes:** MRoy A/P Series: 5.6, 11, 18, 30 gph simplex;
18/18, 30/30 duplex
MRoy B Series: 85 gph simplex; 85/85 duplex
- ▶ Duplex configuration available with independent control of two pumping heads from a single system (MRoy only)
 - ▶ MRoy A, P and B Series motors can run in either direction

MRoy A/P Series



MRoy B Series



- Pump Sizes:** MacRoy D Series: 25, 50 gph
MacRoy G Series: 55, 110, 150 gph
- ▶ Easily adjustable while running
 - ▶ Precise metering and pumping accuracy with the simple turn of a micrometer knob

MacRoy D Series



MacRoy G Series



reflex® Proportional Injection Systems

Even greater precision and control in variable rate irrigation systems.

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

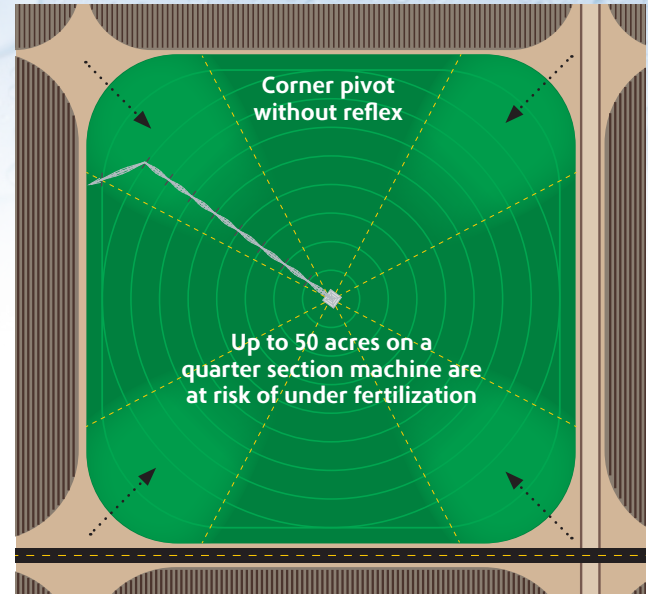
- ▶ Varies the injection rate proportional to irrigation flow
- ▶ Enables Variable Rate Fertigation®
- ▶ Can also adjust to pH, changing pumping rate to maintain pH target
- ▶ User-friendly control panel with LCD display
- ▶ All simplex or duplex pump configurations available
- ▶ Acid and chlorine compatibility
- ▶ Compatible with various flow meters
- ▶ Available in three phase and single phase



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



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.

reflex® Proportional Injection Systems

Even greater precision and control in variable rate irrigation systems.

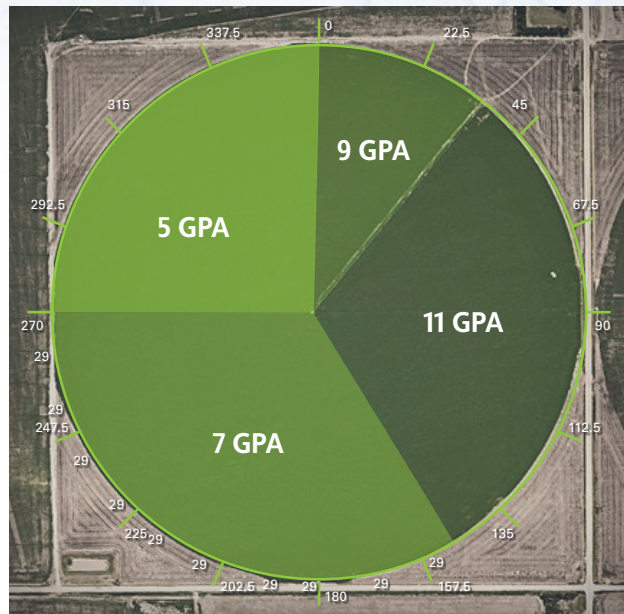
reflex® Features

- ▶ 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: 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 fertigation prescription output.



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

GPA (Gallons Per Acre)

Agri-Inject®

A proven company with the heart of a farmer.

Born in the fields of Yuma, Colorado in 1983, Agri-Inject® has never strayed from its roots. The company was created by a farmer – and we're still here in the heart of agriculture, developing technology and products that help growers of all types get more out of every dollar they invest in every acre.

We're committed to helping growers around the world become more efficient and more profitable through fluid injection technology. Discover how Agri-Inject can transform your irrigation system into a finely-tuned, cost-efficient delivery system for fertilizer and crop protection products.

AUTHORIZED AGRI-INJECT DEALER



AGRI-INJECT®

Because irrigation can deliver more than just water.®

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