

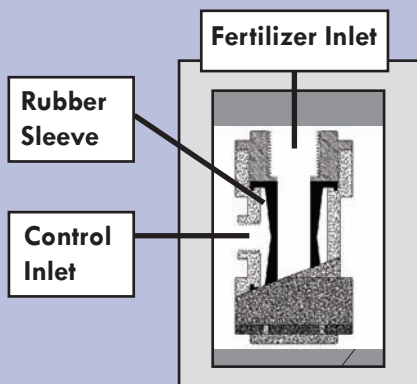
Planter Fertilizer Control Saves Expensive Fertilizer

Richway Nozzle Stop™ Pinch Valves
Operate with Air or Electric Clutches

Economical High Flow Fast Acting

Compact
Fast Acting
Non-Clogging
Reliable

Here's how it works



Air pressure at the control inlet completely collapses the internal rubber sleeve to provide immediate and complete shut-off.

Turn off the fertilizer when you turn off the seed and save money by using Nozzle Stop valves on your planter

"2x2" application rates of 50 gallons per acre can cost \$100 or more per acre. Save just 5% and you have saved \$5 per acre. Multiply that by the number of acres you plant to get your savings with Nozzle Stop valves on your planter. In-furrow "pop-up" savings are less, but still significant. If you have air clutches, the cost per row for pop-up control valves will be about \$80. If you're running both in-furrow and 2x2, ballpark your total cost at \$125 per row.



1/4" & 3/8" shown

Richway Nozzle Stop™ Pinch Valves
Proven in Agriculture since 1985



1/4" valve with push-to-connect fittings

Another precision farming solution from Richway

www.Richway.com

 **RICHWAY**



Quickly and easily mounted on any planter

Richway Nozzle Stop pinch valves were introduced in 1985 and quickly became the preferred method for controlling nozzles on “floater” sprayers. Because they are high flow, economical, reliable, fast acting, and non-clogging, custom applicators recognized them as superior to other methods for controlling liquid fertilizer. These same reasons make this smaller Richway Nozzle Stop pinch valve ideal for controlling fertilizer on all types of planting equipment.

If you are using air clutches on your planter, the Richway Nozzle Stop valves are especially easy to install. Simply tee into the control air line for each clutch, attach the Nozzle Stop and OEV in a convenient spot, attach the fertilizer lines and you're done. In as little as 10 minutes per row. Two sizes for in-furrow and 2x2 application. You can use them separately or together.

Constant Pressure Controller

for uniform fertilizer delivery. It's a low cost method to maintain constant pressure, regardless of how many rows are shut off, though not as accurate as systems which use ground speed as part of the control method. Works with many 12 volt DC diaphragm pumps for in-furrow pop-up applications.



Set the desired pressure and turn the pump on/off from your cab. As rows are turned off, the system adjusts pump speed to maintain the selected pressure. This is an economical solution if you don't have full rate control in your planter tractor.

Quick Exhaust Valve (OEV)

The quick exhaust valve is a key element in Nozzle Stop systems. It speeds the opening of the pinch valve and because of its unique design incorporating an internal check valve, helps to protect your air circuit in the event of a Nozzle Stop sleeve failure. One required for each valve. Shown without mounting bracket or fittings.

Electric Clutch Installations

With the electric power requirements of modern planters, there often is not enough power left to operate large electric solenoid valves required for the high flow rates of 2x2 or dribble banding of starter fertilizer. By using the Richway “electric over air” manifold, the high flow rates of 3/8 Nozzle Stop valves are controlled using the electric clutch signal to the manifold. A 70 psi air source is required, but is often already available for down pressure actuation. This is also a less expensive solution than big solenoid valves. For pop-up application rates, we offer direct acting electric solenoid valves.



Maximum air pressure 90 psi.
Larger sizes available; up to 2 inch.
Kits and components available in a variety of configurations.

Nozzle Stops are “fail open” so loss of air pressure or sleeve failure will result in fertilizer flow.

RICHWAY

Agricultural spraying accessories since 1973

Nozzle Stop is a trademark of Richway

Richway Industries, Ltd.

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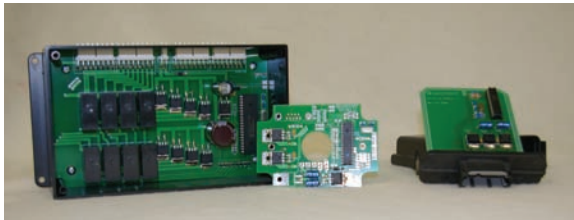
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Richway Control & Liquid Systems Components

For really easy installation, the 1/4" valve is available with push-in fittings for 1/4 tubing. *We recommend the use of our Quick Exhaust Valves in all installations.*



Printed circuit board controls

Custom computer based controls with wiring harnesses available



Quick Exhaust Valve



Peristaltic pump, 12 volt DC

Maximum output
20 oz. per minute,
3 series available
Perfect for low volume
metering



Duckbill Check Valves Easy-Open

1/4" and 3/8" push in fittings

CONSTANT FLOW RATE CONTROL SYSTEM

The Richway pump control system to control in-furrow rates is just about ready to go. Using the microcomputer system proven for 5 years in our VersaTrac foam marker, you set the pressure you want and it stays the same regardless of how many rows are running. You have constant flow per row. Works with 12 volt pumps up to 15 amps.

Richway PCB based controls started with the VersaTrac foam marker which uses a patented dual pulse width modulation (PWM) control system. Richway now provides control systems for liquid food dispensing, waste water treatment pH control, concrete production, and more. It includes speed, pressure and pH sensing, as well as counting and weighing. When integrated with our other available components, you get a complete solution from just one source.



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