



VOD

VARIABLE ORIFICE DISTRIBUTOR

ACCURATE NH₃ DISTRIBUTION

- Accurately controls anhydrous flow
- Keeps NH₃ in a liquid state right up to the distribution point providing equal row-to-row distribution
- Pre-wired to connect to the Hiniker 8160 controller system
- Interface cables available for Raven, GreenStar, Ag Leader and various other control systems



Patent Pending.

NEW

***Consistent Distribution
and Superior Knife-To-Knife Accuracy***

HINIKER VOD

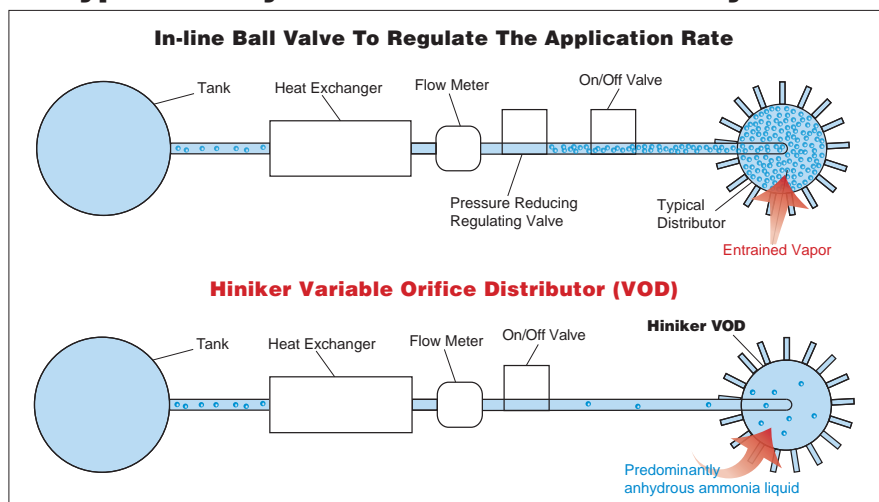
Enhances NH3 Accuracy

The Hiniker **VOD Variable Orifice Distributor** takes anhydrous ammonia application rate control to a new level. The 17 port **VOD** controls anhydrous flow by simultaneously varying the orifice opening at all 17 distribution ports, maintaining pressure all the way to the distribution point.

A typical NH3 rate control system uses a ball valve or butterfly valve to regulate flow prior to the point of distribution. The pressure drop created at the outlet of the pressure valve can allow anhydrous ammonia to flash into a vapor, creating an erratic mix of liquid and vapor. This varying mixture then flows to a manifold for distribution to each knife. The Hiniker **VOD** system eliminates the pressure reducing ball or butterfly valve from the process. The result is near-tank pressure with a liquid state maintained all the way to the point of distribution, allowing more consistent distribution and superior knife-to-knife accuracy, all without the need for a pressure pump.

The Hiniker **VOD** includes 17 outlet ports—unused ports can be blocked off for use with smaller applicators. It is pre-wired to connect to the **Hiniker 8160 controller system**. Interface cables are available to connect to Raven, GreenStar, Ag Leader and various other control systems.

Typical Anhydrous Ammonia Control System



The flow of anhydrous ammonia to the distributor has a large quantity of entrained vapor due to the pressure drop of the in-line regulating valve. This vapor takes up volume in your piping robbing you of maximum capacity and diminishes the accuracy of the distributor (top illustration). The unrestricted flow of anhydrous ammonia to the Hiniker VOD is predominantly liquid allowing for maximum capacity and even distribution (lower illustration).

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.

HINIKER 8160



The Low-Cost Rate Control Solution

Accurate, low-cost control of NH3 & Spray Applications

- Automatic Speed/Distance Sensor Calibration
- RS 232 Communications port
- Now available with GPS speed sensor
- Simplified wiring system

Plug compatible with 8150, 8100, or Spray Commander sensors, meters, and servo valves

Easily upgrade your prior Hiniker System



HINIKER COMPANY
58766 240 St. • P.O. Box 3407
Mankato, MN 56002-3407
Phone (507) 625-6621
FAX (507) 625-5883
www.hiniker.com



Kelley Engineering LLC

3367 West 1150 South • Brookston, IN 47923
www.kelleyeng.com • 765-563-3426 • twitter: @KelleyEngAg

PRECISION AG & APPLICATION SOLUTIONS