

USE THE REVOLUTIONARY

O-NOZZLE

BY
SPRATRONICS®



SOLID
STREAM
VARIABLE
ORIFICE



100° WIDE
ANGLE
VARIABLE
ORIFICE

TO REPLACE ALL THESE



FIXED ORIFICE NOZZLES CONSTRICT SPRAY RATES

The Advantages of Variable Orifice Nozzle Spraying

Custom applicators and farmers know they have serious limitations with ordinary, fixed orifice nozzles due to their narrow range of application rates and very limited spraying speed variations. The Spratronics Variable Orifice **O-NOZZLE** changes all this by instantly adjusting its flow over a broad range from less than 0.5 GPM to more than 14 GPM. Here are some of the problems the **O-NOZZLE** solves:

1. Sprayer speeds that vary due to terrain, causing over-application or under-application.
2. Application rates often vary from field to field.
3. Application rates vary according to product being used.
4. Changing nozzle sizes is often required.
5. Precision agriculture magnifies the above problems by requiring frequent application rate changes according to map points established throughout a field.

The Spratronics Variable Orifice offers an easy, inexpensive solution to these problems that will pay for itself in a few days of spraying.

The Secret Inside the **O-NOZZLE**



*Fully Closed **O-NOZZLE***

Spring pushes orifice assembly tightly against cone, sealing off liquid flow with no dripping.

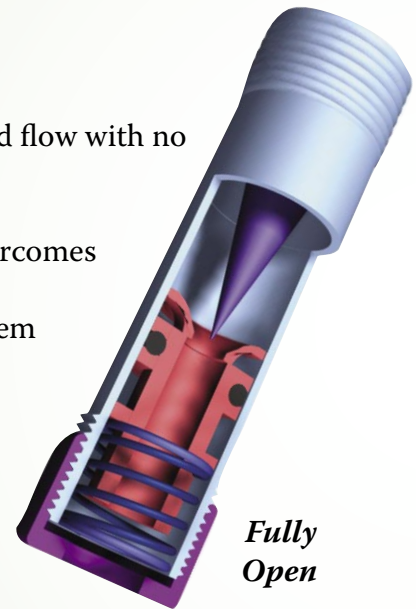
*Partially Open **O-NOZZLE***

When system pressure is increased to 6-12 PSI (see graph) it overcomes spring resistance, allowing flow to begin.

Spring continues to compress proportionately to control system pressure. Orifice allows flow rate corresponding to PSI (see graph).

*Fully Open **O-NOZZLE***

When spring is nearly fully compressed, flow rate reaches maximum 12-14 GPM.



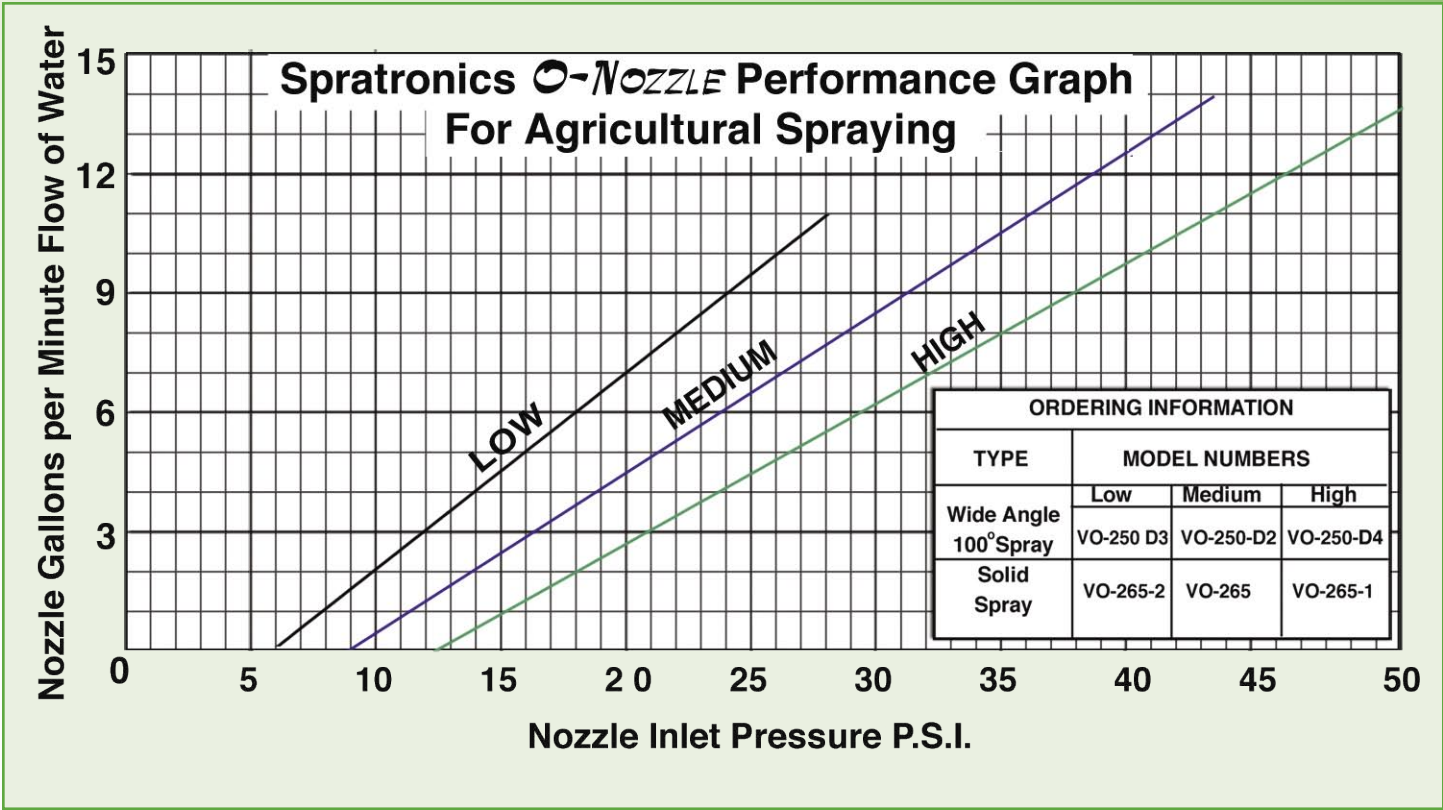
Application Spraying Has Never Been Simpler!

Switch to **O-NOZZLES** Now!

Here's how to get exact application rates for any conditions, including precision agriculture:

1. Replace fixed orifice nozzles with Spratronics **O-NOZZLES**.
2. Determine gallons per acre needed.
3. Set controller in cab to application rate/acre.
4. Drive to field and apply.
5. Results: **O-NOZZLES** will instantly adjust flow as speed and application rates vary.

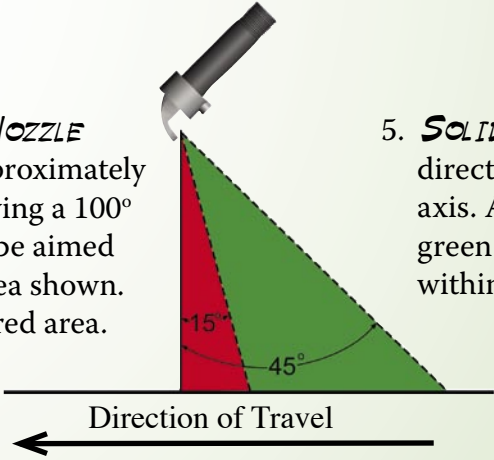
- Easy to install.
- No more under-applying.
- No more over-applying.
- No more nozzle changing.
- Quickly pay for themselves.
- Instantly adjust flows as needed.
- Accurate application rates easily programmed into cab controls.
- Huge benefits for precision agriculture.



Installation Instructions:

1. All O-NOZZLES have 1/2" NPT inlets and should be mounted to spray slightly backwards to the direction of travel, as shown in these drawings.
2. Space O-NOZZLES on spray bar to suit application requirements.
3. Use Teflon® tape on threads and screw in finger tight.

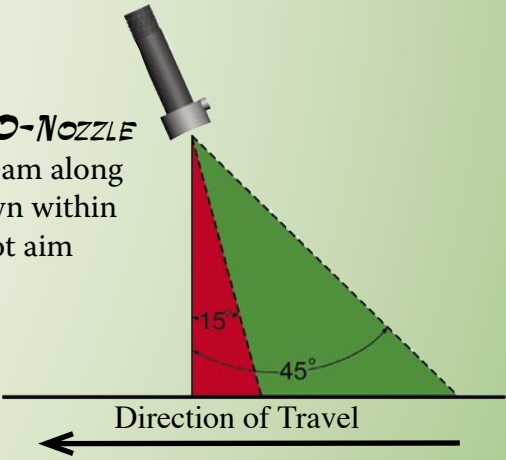
4. **WIDE ANGLE O-NOZZLE** directs liquid at approximately 90° to its axis, spraying a 100° wide fan. It should be aimed within the green area shown. Do not aim within red area.



No Other Nozzle Needed

The uniform performance of O-NOZZLES from .3 GPM to 14 GPM means that only 1 nozzle is now needed to cover a range that formerly required as many as 15 nozzles. Productivity is increased while labor is significantly reduced.

5. **SOLID STREAM O-NOZZLE** directs liquid stream along axis. Aim as shown within green area. Do not aim within red area.



No Other Valves or Hoses Needed

When spraying is stopped, the O-NOZZLE spring system instantly seals the orifice tightly with no drips, no waste. Separate shut off valves are not needed. Separate check valves are not needed.

Results: Less complicated, less expensive, more reliable application systems.



No Other Spraying System Can Match **O-NOZZLE** Performance

IDEAL FOR VARIABLE RATE APPLICATIONS.

IDEAL FOR VARIABLE GROUND SPEED APPLICATIONS.

SOLID STREAM **O-NOZZLE IDEAL FOR BANDING APPLICATIONS.**

WIDE ANGLE **O-NOZZLE IDEAL FOR BROADCAST APPLICATIONS.**

ONE **O-NOZZLE COVERS THE RANGE OF 15 FIXED ORIFICE NOZZLE SIZES.**

WORKS ON ALL TYPES OF SPRAYERS - FROM SELF PROPELLED TO TRACTOR TOWED.

Proven Technology, Satisfied Customers

Over 6000 **O-NOZZLES** have been placed in service since 1996. They are currently in use across the United States, in Canada and in Europe. For highway spraying, they have been purchased by state and county departments of transportation and by many cities.

Airports in the U.S. and Europe depend on **O-NOZZLES** to keep runways free of snow and wintertime ice.

Precision Agriculture Requirements

On today's sprayers the ground speed coordinated sprayer control system meters the correct gallons per acre of product.

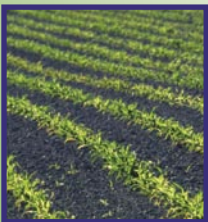
Until Spratronics introduced its Variable Orifice Nozzles there was no nozzle available that could cover the entire liquid fertilizer application rate ranges and ground speed ranges required for agricultural sprayers and precision agriculture. With Spratronics Variable Orifice **O-NOZZLES** this is achievable for the first time.

Keeping The Promise of Precision Agriculture

Precision agriculture with **O-NOZZLES** lowers farmers' per acre planting costs while increasing crop yields. To achieve dramatic results requires exact control and adjustment of spraying. **O-NOZZLES** instantly vary flow rates over a wide range - from .3 GPM to 14 GPM or more.

With **O-NOZZLES**, the promised results of precision agriculture can be fully realized.

Join the **O-NOZZLE** Revolution! Order your new nozzles today!



20403 80TH Ave. SE,
360-668-2548

Snohomish, WA 98296
Fax: 360-668-3784

Toll Free: 1-866-668-3444 www.spratronics.com