

## **Pulse width modulation**

### **Increased Spraying Productivity, Improved Droplet Size Management**

PWM (pulse width modulation) systems uses pulse width modulation technology with solenoid operated tip shutoffs allowing the operator to control tip flow rate and droplet size independent of one another.

The solenoid-operated tip shutoffs mounted at each nozzle body along the boom control liquid flow based on commands that modulate the “on” vs “off” time of each nozzle.

The nozzle switches on and off 10 times each second, resulting in fast reaction times and even spray coverage.

By varying the duty cycle of the shut off flow rates can be varied without changing system pressure, resulting in a consistent droplet size across a wide range of ground speeds and application rates. Conversely, this system also allows the operator to vary droplet size as needed from the cab while maintaining a fixed application rate. The system works in conjunction with the sprayer’s existing rate control system to provide a complete spray control solution. It uses a modular, expandable design that allows it to be installed on a wide range of sprayers from compact golf/turf machines to the largest self-propelled models on the market.

Key Benefits:

- Improve sprayer productivity by maintaining a constant application rate over a wider range of ground speeds.
- Select and maintain a constant droplet size across a wider range of speeds and pressures without changing tips.
- Minimize drift and maximize coverage by maintaining the optimum droplet size.
- Vary the capacity of your spray tips from the cab.

**Compatible with Hypro / Syngenta Defy 3D nozzles all facing the same direction or a low drift flat fan nozzles**

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