

HAWKEYE®

NOZZLE CONTROL SYSTEM



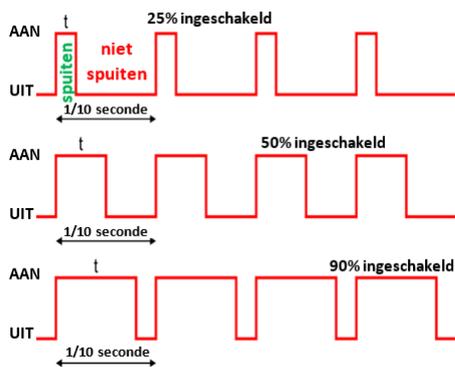
Hawkeye is a pressure based spraying system; the applied amount is controlled per nozzle by a fast pulsing valve. This technology provides a consistent spray pattern and droplet size at a varying speeds.

SPECIFICATIONS

- Nozzle by nozzle section control
- Turn compensations comes standard
- Diagnose per nozzle
- Max 100 nozzles
- Nozzle body's available for: Teejet, Arag en Hypro
- Current consumption: max. 0.7A/nozzle (100% PWM)
- Max application rate per nozzle: 4.5 L/min (5 bar)
- Working pressure: 5.5 bar max.
- Suitable for the most liquid fertilizers
- 2 year warranty

RAVEN

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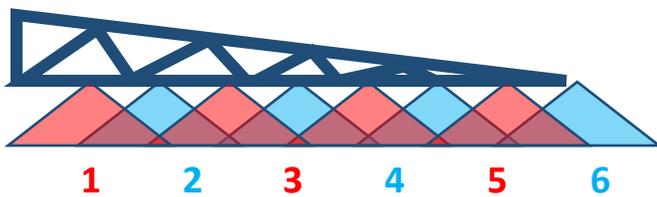


PULSING PER NOZZLE

With Hawkeye® the spray pressure is always kept constant. The application rate (L/ha) is controlled with PWM valve technology. With the PWM technology every valve is turned on and off 10 times per second. The Hawkeye® system automatically changes the on-time and off-time of each valve to achieve the desired dosage.

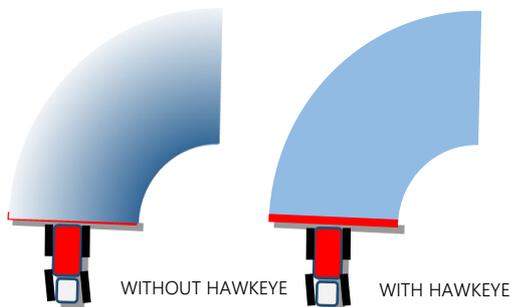
As a result one nozzle is now able to cover rates between e.g. 100 L/ha and 400 L/ha while the pressure remains constant and as a result the droplet size does not change.

The Hawkeye® valves have a 2 year warranty and are extensively tested for reliability. Each valve has its own diagnostics system, so any potential failures do not remain unnoticed. The seals made out of Viton are designed for 500 hours of operation and can easily be replaced when needed.



EQUAL DISTRIBUTION

With the Hawkeye system, the nozzles are only open for a portion of the total time. To ensure an equal distribution of the sprayed liquid the odd and even nozzles alternate when switching. The nozzles are switching 10 times a second so even at high speeds a good coverage is guaranteed.



TURN COMPENSATION

The Hawkeye system comes standard with turn compensation: When turning the inner nozzles have shorter opening times while the outer nozzles have longer opening times. The result is an equal spray distribution across the boom width, resulting in healthier crops and reduced crop damage.

ISOBUS

Hawkeye is a full ISOBUS compatible system and can be used with the ISOBUS compatible Viper 4(+) as well as with your existing ISOBUS terminal. Hawkeye® controls the application rate of the full sprayer and

KEY BENEFITS

- Always the right pressure
- Always a consistent droplet size
- Equal distribution of the applied fluid
- Less nozzle changes
- Future: able to change applied amount per nozzle or per boom section.



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