

flow **ATRON**



ADVANCED FLOW-RATE NOZZLE CONTROL SYSTEM

ARAG[®]
A Nordson Company

Flowtron Valve

FLOWTRON is a solenoid valve designed for spraying, weed control, and liquid fertilizer distribution applications, including on seed drills.

It can be operated in pulse-width modulation (PWM), thus adjusting the nozzle flow rate. Therefore, the pressure remains constant, and so is the drop size. Thanks to this technology, targeted distribution in terms of position and quantity is possible, adjusting each nozzle's flow and flow rate precisely, avoiding over- and under-dosage, for economic and environmental sustainability.

The technological innovation concerns the double-ring seal, which allows for low moving core travel, i.e., high flow rate, minimal current draw, and accurate setting adjustments.

FLOWTRON valve can be installed on all ARAG nozzle holders, allowing the management of machines with the most modern technologies.

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Flowtron System

Thanks to the new CSD (Cable Smart Driver) it is possible to manage the Flowtron valves through the IBX100 SPRAYER ISOBUS control unit. The system is connected via new modular wiring that allows it to be installed on all types of boom.

System configuration

Flowtron valve

- High flowrate (8 l/min - 3 bar)
- PWM Frequency 30 Hz
- Low current draw



CSD - Cable Smart Driver

- Real-time valve performance diagnostic
- Automatic CanBus ID assignment (Daisy Chain)
- Valve synchronization



Application

- Pressure based control
- Multiple rate management across the boom
- Turn compensation

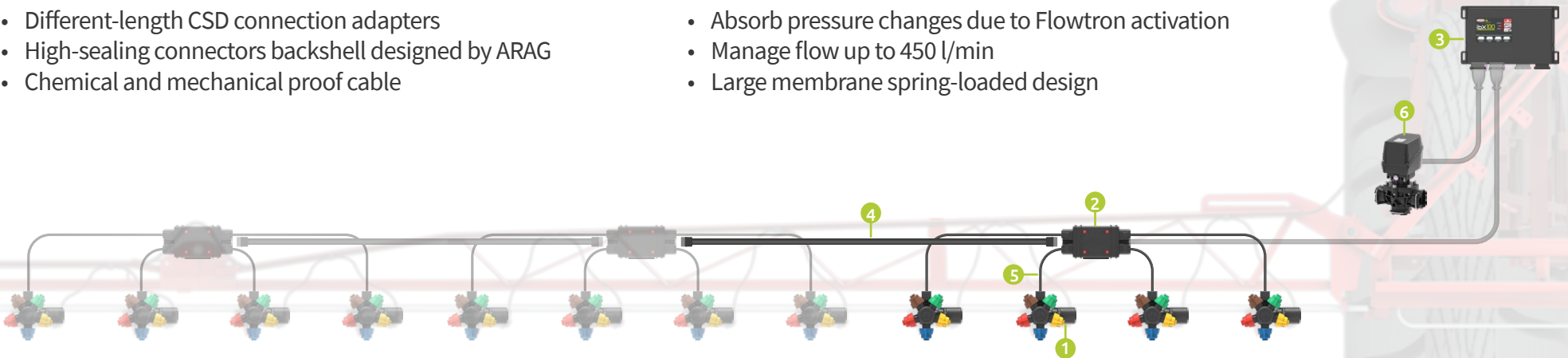


Harness

- Different-length CSD connection adapters
- High-sealing connectors backshell designed by ARAG
- Chemical and mechanical proof cable

875 Pressure regulating valve

- Absorb pressure changes due to Flowtron activation
- Manage flow up to 450 l/min
- Large membrane spring-loaded design





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