



Product Highlights





SMART INTELLIGENT
CONTROL SYSTEM

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A warm welcome to Altek GmbH



We are a systems supplier of innovative components for the control of liquids used in plant protection and municipal equipment. All over the world our clients rely on our products – with decades of experience in the field of pumping and control technology, Altek GmbH is your competent contact for plant protection technology and Precision Farming.

At the Swabian location of Rottenburg, near Tübingen, we focus on research and development. Our daily work is targeted on confronting the many challenges in

agricultural technology and on further developing our products in the best way possible for future requirements.

Topics such as environmental protection, saving resources and more efficient products are more important than ever and require the highest level of precision farming. The smart products from Altek GmbH aim at meeting these demands in an optimum way and already make it possible to have specific applications with electronic support which are tailored directly to the plant.

About us



Regionality and sustainability are similarly important topics for Altek GmbH, we develop and assemble our products exclusively in Germany. Unlike many other industrial operations, for years we have been pursuing a strategy of a high degree of vertical integration and local sourcing. This not only supports our independence, in particular from worldwide suppliers, but it also reinforces the continuation of our delivery performance and quality.

We are ideally suited to meet your individual wishes and needs. Take a look for yourself:

this brochure contains all our product highlights. You can find our full product catalogue and further information on our webpage: www.altek-gmbh.de

Should you have further questions on our products, we are looking forward to hearing from you and hope you enjoy reading our brochure!

Your Altek GmbH team

Smart-C-Spray

There are three main types of module currently available



— Single line control INC Modules (4 x outputs) spaced at 2.00 m typically



— Twin line control INC Modules (4 x outputs) spaced at 1.00 m typically



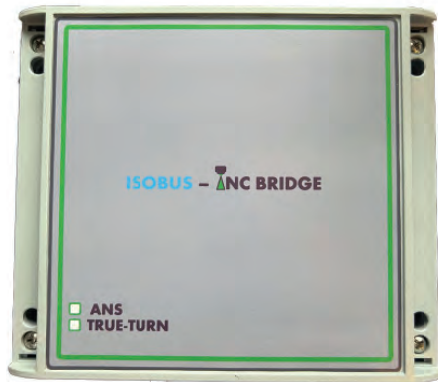
— Quad line control INC Modules (8 x outputs) spaced at 1.00 m typically

- * *Auto Nozzle Select*
- * *Altek True-Turn-Compensation*
- * *Nozzle Spy Flow Monitoring*
- * *No restrictions in nozzle usage*
- * *Self Addressing can nodes (INC)*
- * *Fast Regulation when using SBR500 Regulator*
- * *Low power requirement*
- * *Easy Connection / Cables*
- * *Self Diagnostics*
- * *Connect to a range of rate controllers*
- * *Easy Aftermarket fit*

The most important features are:

- Individual nozzle control of 1 - 4 spray lines, whereby the spray nozzles are controlled either independently of one another or in combinations from the terminal in the cab, in order to achieve the best possible spraying result
- Auto Nozzle Select (ANS) allows an automatic change of nozzle size/nozzle combination (2x and 4x systems) in order to compensate for changes in speed or quantity
- Flow Monitoring (Altek Nozzle-Spy) at each nozzle position provides real-time feedback to the spraying terminal (2x and 4x systems)

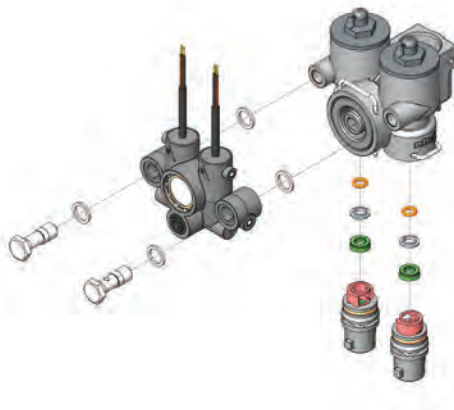
SCS-124



ISO-Bridge connectivity enables the system to be controlled by a range of controllers, e.g. Raven, AG Leader, ...

Modular Design Twin & Quad Bodies:

Parts that are susceptible to wear or accidental damage can be easily replaced including the Nozzle holder clamp.



Fast Flow & Pressure regulation using Altek SBR500

The Altek SBR500 regulation valve has been developed to provide fast reacting and proportional flow control with integrated feedback if required to ensure controlled application at all times.



Smart Ball Regulator 500

500 l/min

Keep control with
SMART FLOW REGULATION!

A standard regulator will react to system pressure and flow changes. Our SBR500 works pro-actively! Flow rates are possible in "REALTIME" either by software or by means of the use of prescription maps.

The SMART-Control-Unit with permanent signal output of the regulator ball angularity brings the regulator accurate and quickly to the new required ball point. In rinsing operations, required flow rates are immediately achieved by precise control of the regulator.

The brush-less-motor provides durability and low-wear operation.

Metering disc
return flow

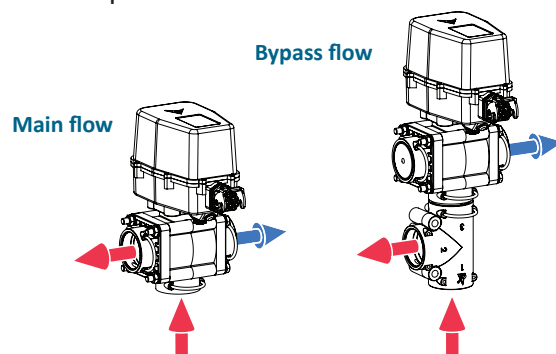


SBR 500



Features:

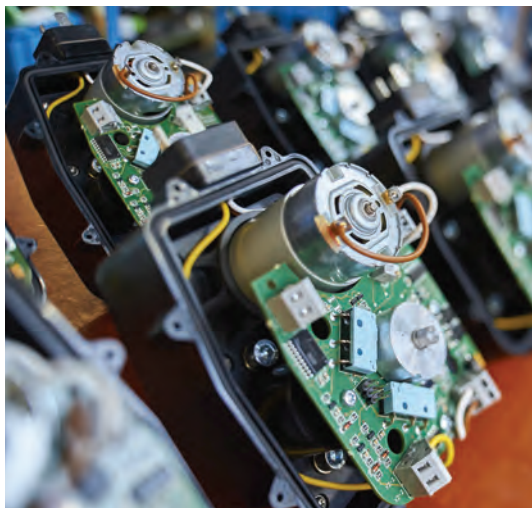
- Open / close within four seconds
- Ball switching optionally by rectangular signals (12 V/DC) or proportional signal (4-20 mA)
- Standard 12 Volt or CAN communication option
- PCB-unit with integrated angle measuring system of the ball position
- Fits with Altek Quick-Fit Plug-In-System
- Regulated up to a high flow rate of up to 500 l/min
- CAN-capable hardware



Central valve

3-way Ball Valves

Ø39 mm



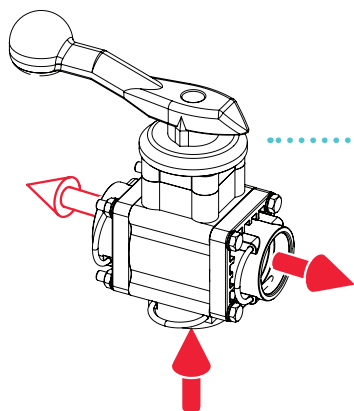
Pressure inlet



Features:

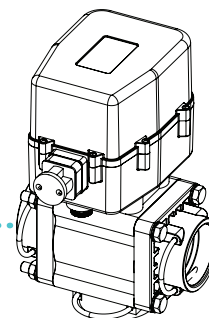
- * High wear resistance
- * Modified polyamide as sealing
- * Ball bearing shaft
- * Exceptionally compact
- * Very short switching time

manual



Article nr.	ZV Ø39 mm	Drive
83163	manual	
83160	electric	2-wires
83173	electric	3-wires

electric



VARI FEED

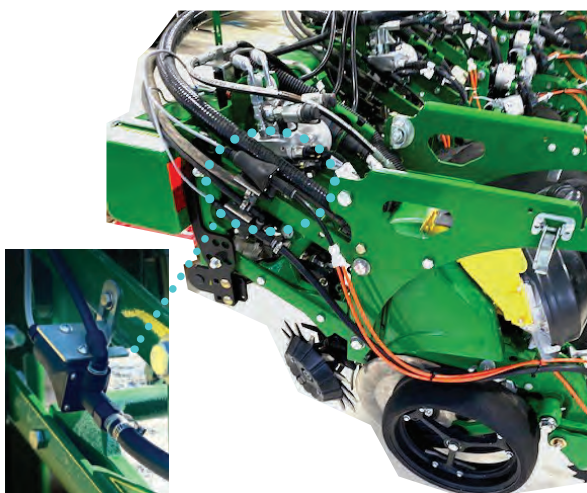
Motorized regulating valve for planters

For use with multiple-row planting machines equipped with applicators applying liquid fertiliser directly during planting operations.

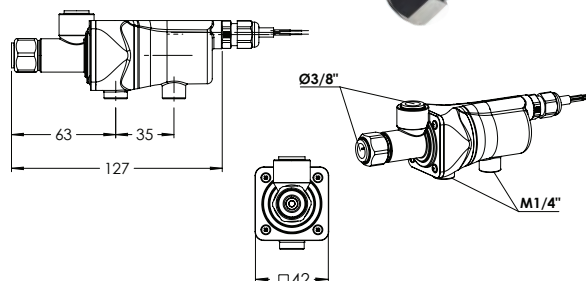
The Vari-Feed motorised valve can be adjusted to supply variable volume rates required.

The valve can be used in conjunction with variable rate software / application prescription maps where different volumes are required within a row or in a lateral distribution.

Low power requirement!



VARI FEED



Article no.	Type	Hose Ø	Fixing screws
84932	Vari Feed	3/8"	M 1/4"

Specifications

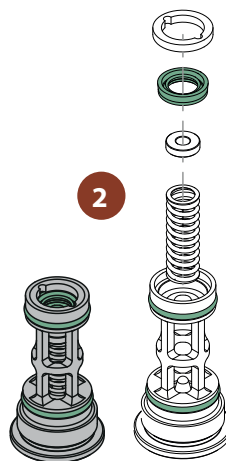
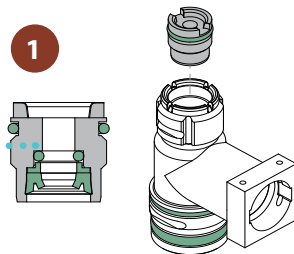
Drive	Motor DC
Current draw	approx. 300 mA
Power supply	*12V
Speed *Possible 24 V option; 20 mm/s @ 24V	10 mm/s @ 12V
Duty cycle	max. 50%
Life time	1,500,000 cycles
Total stroke pin rod	5,0 mm
Stroke per step	0,033 mm
Pressure range	0 – 5 bar
Flow range	0 – 13 l/min
Type of protection	IP 5k6k (acc. ISO 20653)

MFV

MODULAR-FIT VALVE

2nd Generation

In addition to the already familiar advantages of our section valves, we have made further developments to the Modular Fit valve and optimised it in many ways:

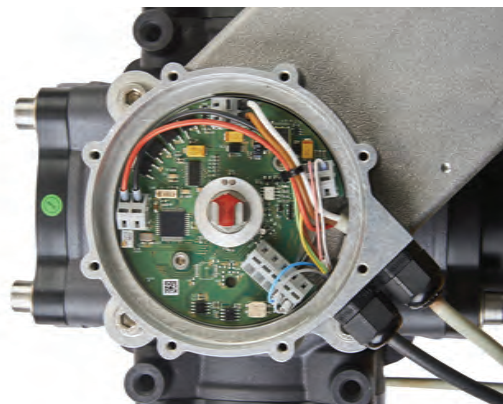


- * **New and improved sealing (1)** of motor / transmission unit
- * **Wear resistant lip / plunger sealing (2)** in the pressure relieve channel
- * Flow rates **up to 40 l/min** at only 0.15 bar pressure loss per section valve
- * **Switching time 0.7 s**

- * **sealing plug (2)** incorporates all sealing elements
-> **easy access and exchange in service case**
- * Individually configurable boom sections up to 13 valves
- * Electrical connections **to suit all systems**

SMART BALL VALVES

*Smart Can Bus Controlled Valves
are the intelligent solution*



Features:

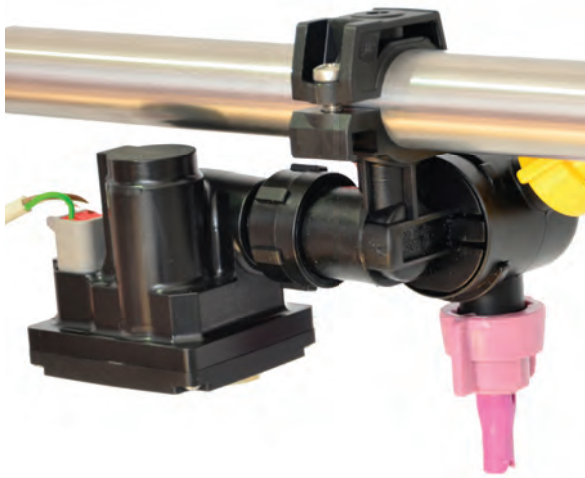
- Integration into the CAN bus system of the crop protection equipment
- OEM individual CAN communication possible
- direct control via the circuit board diagnosable
- 360° position of the ball possible
- The control of the ball valve is done via CAN bus, in case of failure this can also be operated manually
- In the event of blockages or faults, corresponding error messages are sent to the controller
Diagnostic capability by output of operational data
- In the event of a blockage or malfunction, integrated current protection prevents overloading the engine and transmission

Article no.	Drive	Size of inlet	Size of outlets
KH1 ¼			
84452	SMART	AS40	4 x AS40
KH2			
83450	SMART	2"-Port	4 x 2"-Port
KH2 15bar			
83451	SMART	2"-Port	4 x 2"-Port
KH3			
84873	SMART	Banjo 3"	1 x Banjo 2" 2 x Banjo 3" 1 x blind flange

Autumn 2022 - Product Preview

ELEKTRA

Compact Electric Nozzle Control Valve



Features:

- Suitable to fit all standard nozzle bodies
- 12 Volts DC motor
- Low power requirement
- Adjustable sealing ball
- Suitable for single nozzle control





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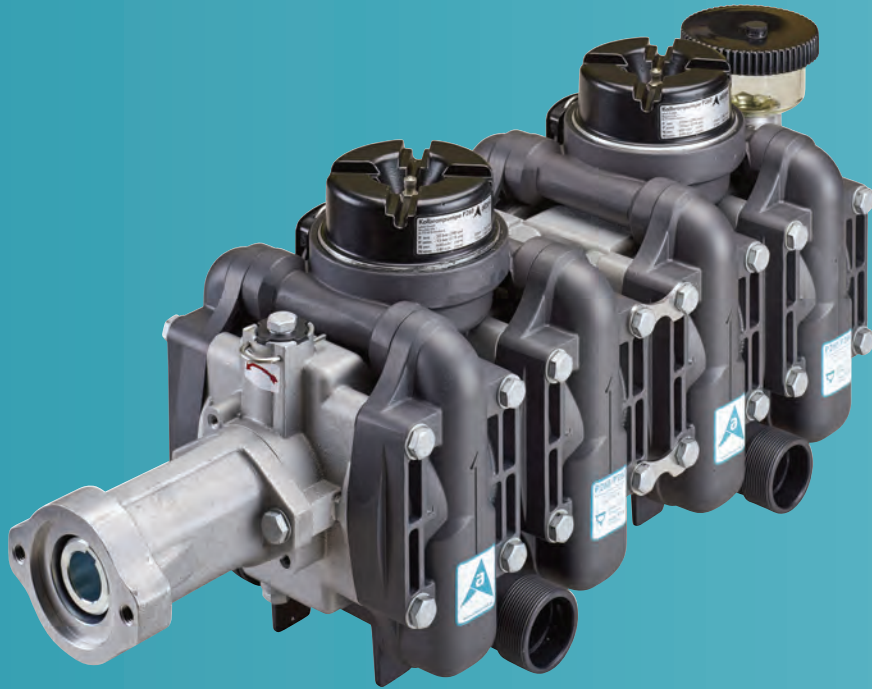
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Precision Farming Applications



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