

For Smooth Operations

**For efficient  
dosing:**  
ABNOX  
Metering  
Technology

Vario - Metering Valves  
Impulse Valve  
Outlet Valves



**ABNOX<sup>®</sup>**  
Lubrication & Metering Solutions

# Vario - Metering Valve **AXDV-V1**

**By combining the principle of the eccentric screw pump with precision control of the dosing time and rotor speed, the new ABNOX VARIO Metering Valve supports the dosing of various lubricant quantities with the highest precision and repeat accuracy.**

The new ABNOX VARIO Metering Valve supports a broad range of applications (robotics, assembly lines and manual workstations/assembly workstations).

Precise, even and reliable volumetric dosing is possible thanks to the adjustable application speed and rotor rotation.

Since the motor controller can also turn the rotor backwards, this VARIO Metering Valve guarantees clean dosing without dripping.

Point and bead application

No dripping (pull-back effect) and pulsation-free

Suitable for variable dosing of low to high-viscosity lubricants

Integrated control unit and release button for manual operation

Pressure-resistant up to 35 bar  
The rotor and stator form a dosing chamber with optimum seal

High dosing and repeat accuracy

Vario - Metering Valve **AXDV-V1-SV**





All technical data, information, replacement parts, accessories and the animated video illustrating how it works are found on our website: [www.abnox.com](http://www.abnox.com)



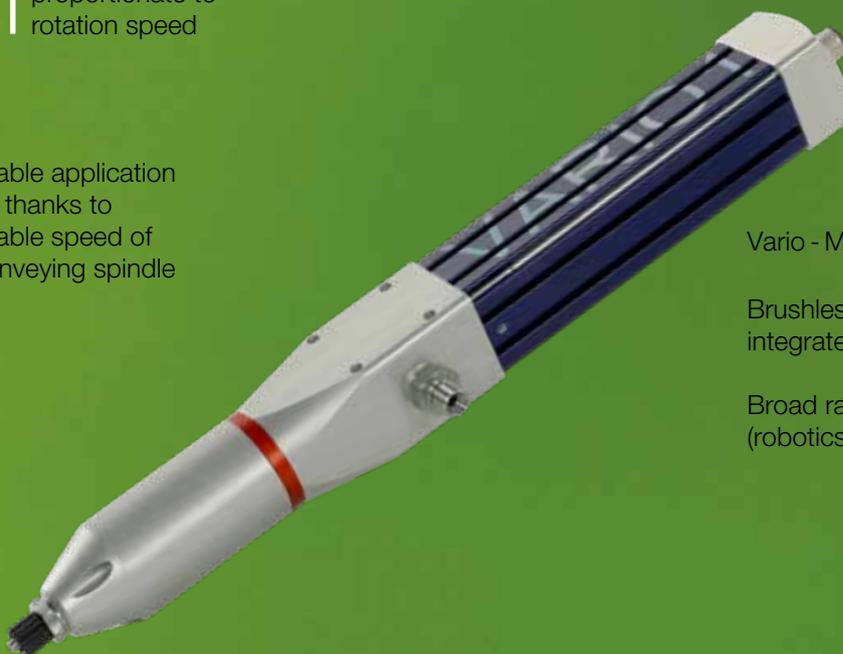
Flexible dosing volume  
Continuously adjustable dosing volume

Broad range of applications  
(manual workstations/  
assembly workstations)

Dosing volume  
proportionate to  
rotation speed

Adaptable application  
speed thanks to  
adjustable speed of  
the conveying spindle

# Repeatable and accurate dosing of various volumes.



Vario - Metering Valve **AXDV-V1-EL**

Brushless DC Motor with integrated control unit

Broad range of applications  
(robotics and assembly lines)

 **MADE IN SWITZERLAND**

# Impulse Valve **AXDV-P1**

**The new ABNOX Impulse Valve of the P1 series with its compact design is an extremely fast-switching, pneumatically controlled high-performance valve for the contactless dosing of lubricants with medium to high viscosity.**

The Impulse Valve is electrically triggered via an integrated 4/2 directional control valve. Short paths within the entire air supply system and the fast-switching magnetic valve permit up to 100 switching cycles per second.

The alternating supply of air to the working piston opens and closes the nozzle needle. When the control air supply is shut off or fails, a spring closes the nozzle.

Impulse Valve **AXDV-P1**



Stroke adjustment  
Dosing needle

Compact design,  
for easy integration  
into all production  
equipment

Flexible,  
contactless dosing  
with high repeat  
accuracy.



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High dosing speed with perfectly tailored dosing volumes

Broad range of applications – suitable for dynamic minimal quantities and also jet forming dosage with higher volumes

Low weight, ideal for high movement speeds



Highly flexible – exchangeable nozzle and dosing needle

Exact dosing processes with high repeat accuracy and high dosing accuracy

 **MADE IN SWITZERLAND**

# Outlet Valve **AXDV-A1/-A3**

**Low to high-viscosity lubricants can be applied with the new A-series Outlet Valves from ABNOX in a compact design. The pull-back effect when closing the valve prevents dripping of the medium after dosing.**

The clearance is 2.2 mm (A1) and 4.3 mm (A3). These valves can be used for grease application to specific points or also for higher application volumes, such as beads or lines as well as lubricant filling depending on the activation time.

The opening cross-section of this ABNOX Outlet Valve is fixed. Optionally the speed of the lubrication medium can be regulated by means of the applied pump pressure or an ABNOX Material Pressure Regulator.

Pneumatic control

Pressure-resistant up to 200 bar



**Handgrip SV**



**Handgrip PN**



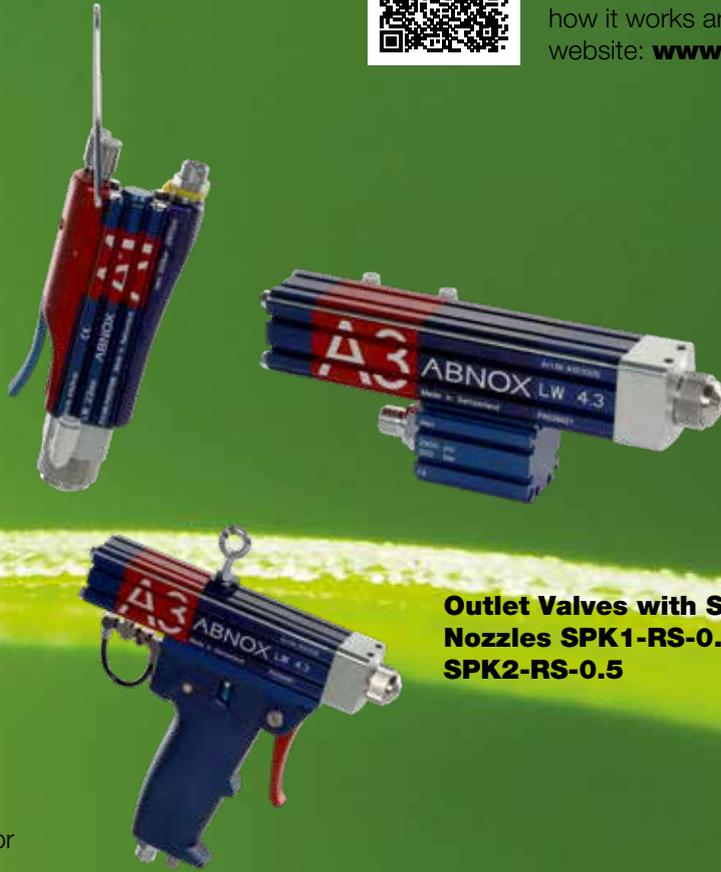
**Handgrip HG**



Outlet Valve **AXDV-A1**



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**Outlet Valves with Spray Nozzles SPK1-RS-0.5 and SPK2-RS-0.5**

Optional dosing needle monitor with sensor, art. no. 0001220

Variable and cost-effective dosing of lubricants.



Spraying head and choke valve can be retrofitted

Compact design, can be integrated into all production equipment or any manual workstation

Also available (-PN, -SV, -HG) with handle

**MADE IN SWITZERLAND**

# For Smooth Operations



## Lubrication Technology

Manual, electric and pneumatically activated lubricating and decanting equipment for delivering greases and oils.



## Metering Technology

Metering valves, control elements, part-specific applications.



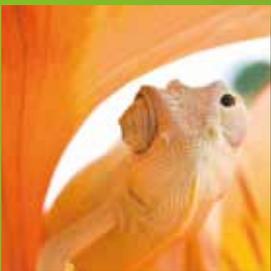
## Grease Supply

Compressed air and electrical grease supply systems and pumps for supplying moderately to highly viscous lubricants.



## Clamping Technology

High pressure one-hand and hand lever pumps, high pressure valves, pneumatic and electrical high pressure pumps, clamping systems.



## Customised Solutions

Development according to customer requirements for metering and greasing systems, from equipment and machines to clamping and releasing of tools and work pieces.



Please order our current information material or visit our website.

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