

METERING SPRAY VALVE DAVS 100

The metering spray valve **DAVS 100** is designed to spray with the highest accuracy and repeatability greases and lubricants to NLGI 2. The result is the covering, with a thin film of lubricating, of a well defined area, with a real grease coating.

The chamber has a volumetric capacity adjustable from 1 to 20 mm³ (0.001 to 0.02 cc) and with a special sensor is possible to check the emptying of the dosing chamber, for the highest control of the assembly process.



DAV TECH SRL

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FIELDS OF APPLICATION:

- > Grease spray metering
- > Lubricants spray metering

FEATURES:

- > Volumetric dosing, reliable and constant
- > Accurate grease coating
- > Dosing independent of viscosity, pressure and temperature of the lubricant
- > Pressure control system not necessary
- > Dosing objectivable with a sensor
- > Quantity dispensed easily adjustable
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- > Available on request in version for low feed pressure.

Technical Data

Model	DAVS 100
Operation mode	Double Acting
Weight	280 g
Fluid pressure inlet	Min 20 bar - Max 200 bar (low pressure version available)
Quantity dispensable	1 mm ³ - 20 mm ³ (0,001 cc - 0,020 cc)
Actuating air pressure	5 - 7 bar
Additional air pressure	0,1 - 5 bar
Inlet air	M2,5 fittings for Ø 4mm hose
Inlet additional air	M5 fitting for Ø 4 mm hose
Inlet fluid thread	1/8 gas
Outlet fluid thread	M5 for luer lock nozzles or 1/8 gas female thread
Speed	Up to 60 cycles / min
Adjusting the amount dosed	Micrometric with block screw
Used materials	Stainless steel, anodized aluminum
Fluids to be dispensed	Greases and lubricants up to NLGI 2

FEEDING PUMPS FOR GREASE

DAV Tech pumps are ideal to feed grease and lubricants, contained in cans or drums, to the valve DAVS 100. Pumps are available for cans from 0.5 up to 5 kg and for 5 to 200 kg drums.

SPRAY EXTENSIONS FOR VALVE DAVS 100

The valve DAVS 100 can accommodate various types of extensions: it is suitable to lubricate the outside by creating a round or elliptical fan, otherwise it is possible to install the extension for radial dispensing, available in lengths 15-30 and 50 mm, which allows the creation of a circular crown of grease without contact.

DRIVE THE VALVE DAVS 100

The DAVS 100 valve have to be controlled by 5/2 solenoid valve. It is not necessary that the timing is accurate, but it is important that the time set in the two phases of operation allows the valve to recharge and to dispense the lubricant. The additional air needed for spraying must be controlled by a solenoid valve 3/2 with a pressure reducing precision mounted in series.



Connection diagram

