

## METERING VALVE DAV 100

The metering valve **DAV 100** is designed to dispense with the highest accuracy and repeatability greases and lubricants to NLGI 3 (1,000,000 mPa s). The chamber has a volumetric capacity adjustable from 1 to 20 mm<sup>3</sup> (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

Via Ravizza, 30  
36075 Montecchio Maggiore (VI) - ITALY  
Tel. 0039 0444 574510  
Fax 0039 0444 574324

[davtech@davtech.it](mailto:davtech@davtech.it)  
[www.davtech.it](http://www.davtech.it)

### FIELDS OF APPLICATION:

- > Grease metering
- > Lubricants metering

### FEATURES:

- > Volumetric dosing, reliable and constant
- > Dosing independent of viscosity, pressure and temperature of the lubricant
- > Pressure control system not necessary
- > Dosing objectivable with a sensor
- > Quantity dispensed easily adjustable and that can't be changed accidentally using the block screw
- > Small and Light (170 g)
- > Available on request in version for low feed pressure.

### Technical Data

<b>Model</b>	DAV 100
<b>Operation mode</b>	Double Acting
<b>Weight</b>	170 g
<b>Fluid pressure inlet</b>	20 bar Min - Max 200 bar (low pressure version available)
<b>Quantity dispensable</b>	1 mm <sup>3</sup> - 20 mm <sup>3</sup> (0,001 cc - 0,020 cc)
<b>Actuating air pressure</b>	5 - 7 bar
<b>Inlet air</b>	M2,5 fittings for ø 4mm hose
<b>Inlet fluid thread</b>	1/8 BSP
<b>Outlet fluid</b>	M5 threaded with luer lock holder or fitting 1/8 BSP female
<b>Speed</b>	Up to 60 cycles / min
<b>Adjusting the amount dosed</b>	Micrometric with block screw
<b>Used materials</b>	Stainless steel, anodized aluminum
<b>Fluids to be dispensed</b>	Greases and lubricants up to NLGI 3-1000000 mPa s

## FEEDING PUMPS FOR GREASE

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

## NOZZLES FOR VALVE DAV 100

The valve DAV 100 is equipped with luer lock nozzle holder or alternatively with a threaded nozzle 1/8 BSP female. We can also design and build special nozzles (multi-point, radial, etc.) to meet the customer needs.



## DRIVE THE VALVE DAV 100

The DAV 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.

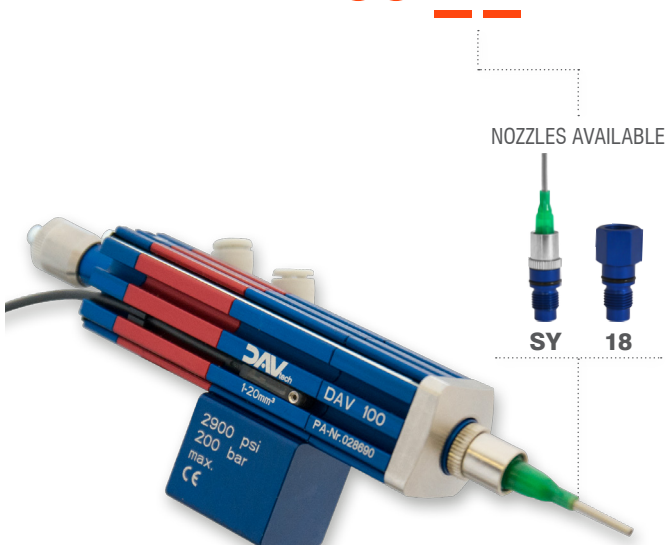
## SENSOR FOR VALVE DAV 100

Through a simple reed switch (optional), you can verify a successful emptying of the volumetric chamber, to have the highest control of the assembly process.



### Valve configurations

## DAV 100



Special versions available on request.

### Connection diagram

