Installation and maintenance guide



ELECTROMAGNETIC JET VALVE DAJ 100



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1 GENERAL INFORMATION

1.1 Introduction

This manual is an essential part of the electromagnetic valve and is destined to trained and well-informed personnel, which is aware of the machine performance at the risk conditions to which it may be exposed.

This document supposes that in the plants where the valve is destined, are complied the present norms of safety and hygiene of the work. DAV Tech Srl won't be liable for actions or improper connections made by unqualified and unformed personnel.

Instructions, drawings and documentation contained in this manual are of reserved technical disposition, only for DAV Tech Srl property and may be not reproduced in any way, neither in full or partially reproduction; not translated into another language, or transmitted in any electronic or mechanical means or form, without written permission of DAV Tech Srl.

The data and values expressed in the manual are approximate and variable depending on fluids, applications and methods of use. DAV Tech Srl doesn't assume any responsibility regarding the accuracy of the contents of this manual.

The drawings and technical data in this document is updated to the date of their publication and DAV Tech Srl reserves the right to change, without notice, the contents of this manual. It is therefore forbidden for Technician and Operators of the maintenance to use this manual for different purposes from those relatives to the care and maintenance of equipment in question.

This manual includes the installation, use and maintenance norms of the electromagnetic valve in safety.

Test in production workshop.

The manufacturer guarantees the valve, that this document refers, has been inspected and tested by his production workshop.

"At term of law we reserve the property of the data and technical information with the prohibition of play, communicate to third parties or use them anyway for any other executive purpose and what is shown in this document is the property of the Manufacturer"

1.2 Warranty

This warranty is valid for 12 months from the actual delivery. During the warranty period DAV Tech Srl is undertakes to remove in the necessary time the obvious faults and flaws of material and/or production, on condition that machine or equipment has been used properly, according to the best rules of behaviour and maintenance provided in this manual. The flawed parts under warranty are fixed or replaced free from DAV Tech Srl in the time compatibly necessary, understood that the DAV Tech Srl is exempted from each responsibility for any title, while the buyer give up to ask damages or costs, including those resulting from the temporary not use of the purchased machinery for all the time is necessary to put it back in efficiency; The transport and/or the forwarding costs, the outward and the return trip costs relative to the operation by the DAV Tech's technicians in the Buyer address are always on charge of the buyer. The labor costs relative to the operation of the DAV Tech's technicians in the Buyer address for the removal of flawed parts under warranty, are on charge of DAV Tech Srl, except these cases when the nature of the flaw can be easily removed on place by the Buyer. This commitment of DAV Tech Srl excludes each other warranty effects provided by the law. The warranty for the replaced or repaired spare parts of the electromagnetic valve finishes the same day of the warranty expiration date of the electromagnetic valve, the replaced part warranty however doesn't has lifetime less than three months after its installation. Replaced parts during the warranty period by the seller are free acquired in the same place with new parts. Are excluded from the warranty all the tools and consumable materials, possibly supplied by DAV Tech Srl with the machine. It are excluded and renounced by the buyer every pretensions of items/people damages reimbursement on charge to DAV Tech Srl. for any titles. even if the damages were depending from manufacture or material flaws. It's of equal excluded and given up any reimbursement for people and/or items damages depending on the practise of the electromagnetic valve. Parts replaced free remain of DAV Tech Srl property. Elapsed the warranty period every operation will be on charge to the buyer.

Application fields

- · Packaging machines
- · Paper converting industry
- Printing machines
- Tobacco industry
- Assembly industry
- Food industry

Condemnation of conformity flaw - Goods reception.

The original configuration of the electromagnetic valve never must be changed. On goods reception, check that:

- · The packaging is intact
- . The exact correspondence of the commissioned material

In case of damages or wrong delivery contact immediately DAV Tech Srl.

The buyer, on penalty of warranty decadence, must report in writing the flaw conformity or fault of the electromagnetic valve to the seller, specifying in detail the nature, within eight days from their discovery.

In no case the condemnation of conformity flaw or fault may be validly made after the expiration date of the warranty terms. Also the buyer decays from the warranty if doesn't allow each reasonable control that the seller requires.

It's excluded from this warranty the most damage caused to the machine by the failure timely condemnation to the seller of a

conformity flaw or fault of the the electromagnetic valve.

1.3 Warranty restrictions

This warranty is only valid for products of new construction.

This warranty is limited to the reparation or replacement, by the seller, of each parts of the machine or supplied material that results flawed, after checking the existence of the flaw. In no case the seller will be liable for every consequential or indirect flaws or otherwise derived from production cycle interruption or machine stoppage.

The seller is not liable for flaws of the electromagnetic valve derived from the use of devices, equipments, etc. that are enquired and provided by the customer and installed on the machine to change its use compared to the original design.

The seller is not liable for every conformity flaws of the electromagnetic valve or faults owed for the normal wear of those parts that, by their nature, are subject to rapid and continuous wear.

The seller also is not liable for damages resulting from improper use of the equipment and from the non observance of the norms expected for the execution of the ordinary periodic maintenance.

The seller is not liable for conformity flaws of the electromagnetic valve or faults that depends on changes, reparations, atterations or tampering attributed to the buyer and however non-authorized personnel of the buyer.

The costs relative to the wear materials necessary for test and restart the electromagnetic valve are on charge of the buyer.

1.4 Maintenance service request

Contact: Technical office of DAV Tech Srl Via Ravizza, 30 - 36075 Montecchio Maggiore - VICENZA e-mail: davtech@davtech.it - Tel:. + 39 0444 574510

Always forward the request in writing (fax or email) and give all the information to identify the machine object of the request:

- Model
- Serial number

Please refers to the frontispiece of this manual or directly to the nameplate on-board to the machine or to the serial number of the electromagnetic valve.

1.5 Spare parts request

The customer is responsible to purchase original spare parts that guarantee him to keep efficient and safe the electromagnetic valve. The disassembly and assembly operations must be performed according to the manufacturer's instructions. Contact the Technical Office of DAV Tech Srl which will give to you the specifications to do the request of the parts and will provide the information about their replacement. To order the spare parts is necessary to report completely all identification data of the electromagnetic valve and those of spare parts to be replaced. The illustrations in this document are for example.



2 SAFETY RULES AND REGULATIONS

The electromagnetic valve DAJ 100 is designed and manufactured in compliance with the current safety standard. Only trained personnel is authorized to install and use the electromagnetic valve. For the electromagnetic valve DAJ 100 are provided only and exclusively the application fields describe in this manual. All data and parameters indicated in this manual must be respected. Any other use is considered improper.

All operations performed with the electromagnetic valve DAJ 100 must be carry out in compliance with the following current safety rules and regulations written in part:

1. Rules of fire prevention

 Directive 2006/42/CE of European Parliament and Council of the 17th of May 2006 regarding to machines and that modify directive 95/16/CE (recasting)

 Directive 2014/35/UE of European Parliament and Council of the 26th of february 2014 regarding the harmonization of the UE Countries laws about the making available on the market of electrical equipment intended to be used within certain voltage limits (recasting)

 Directive 2014/30/UE of European Parliament and Council of the 26th February 2014 regarding the harmonization of the UE Countries laws about the electromagnetic compatibility (recasting)

 Rule 2016/425/UE of the 9th of March 2016, about the personal protection equipment and that abrogates the directive 89/686/ CEE of the Council.

2.1 Safety and environment general informations

Before the start-up of the electromagnetic valve the personnel must be adequately informed and trained on its use, direction and start-up process, as well as the safety norms to be performed and also observe how it is prescribed in this document and in other documents possibly attached to the electromagnetic valve. The employer must provide to instruct the personnel on the risks of injury, on safety devices and accident prevention general rules provided by the community directives and the legislation of the country where the electromagnetic valve is installed.



CAUTION: Always disconnect the power supply before proceed to carry out any maintenance or adjustment operations. Discharge the fluid pressure before to proceed to carry out any maintenance or adjustment operations.

2.2 P.P.E. Personal protective equipment

For personnel who will work on the electromagnetic valve, for any functions (installation, assembly, demolition, maintenance and operation) they will be provided with appropriate PPE. - Personal protective equipment of type approved and certificate by C.E.:

- · anti-solvent gloves
- cut resistant gloves
- masks
- coverall (no floating coverall)



CAUTION: The clothes of who will operate the electromagnetic valve for any functions must be in compliance with the essential safety requirements defined by the regulation 2016/425/UE of 9th of May 2016 and by the actual laws in the country of use.

Installation and maintenance guide

2.3.1 General safety

In accordance with the Machine Directive it means for:

DANGER ZONE = area within or near the electromagnetic valve where the presence of an exposed person make a risk to the safety and health of himself.

EXPOSED PERSON = any person that is placed entirely or partially inside a danger zone.

OPERATOR = person who is appointed to install, operate, adjust, perform ordinary maintenance and clean the machine.

All risk areas of the electromagnetic valve have been checked and consequently have been taken the necessary precautions to avoid risks to people and damage to the components of the electromagnetic valve.

Safety glossary

Intended purposes

By this term it refers to the use of the machine as described by the manufacturer. For "intended purposes" also refers to the use of the unit through its design, its construction and function.

Secondary risks

Secondary risk are unavoidable despite all the preventive measures that are taken.

Competent personnel

A person is competent when it acquired sufficient knowledge in a specific field both through the professional instruction and with the experience. A competent person must get to know with the specific norms for the safety on work and for the accident prevention and generally with the technical knowledge rules.

Trained personnel

A person is trained when informed by a competent person about the activities it must perform and the risks relative to improper behaviour and, if necessary, it has received the required training. Also a trained person must be informed about the safety devices and protective measures.

Skilled personnel

A skilled person is a competent one or sufficiently trained.

The operator must be informed of the position and operation of all commands and features of the electromagnetic valve.

The maintenance and start-up operations must be performed by qualified technicians after properly setting up the electromagnetic valve.

The unauthorized tampering or replacement of one or more product parts, the adoption of accessories that modify the original use of the electromagnetic valve and the purpose of different consumer product from those recommended in this manual, can become a cause of injury risks. The protective devices must not be removed or tampered for the risk to reduce the accident prevention features of our products.

To highlight particular situations for the safety of the instrument, are used the following graphic symbols:

$\label{eq:cauchy_constraint} \textbf{CAUTION} \ \textbf{and/or} \ \textbf{DANGER} - \textbf{Accident} \ \textbf{prevention} \ \textbf{rules} \ \textbf{for} \ \textbf{the} \ \textbf{operator}.$

R. R. – RESIDUAL RISKS WARNING - There is the possibility to damage the machine and/or its components PRECAUTION - Further information about the operation in progress NOTE - Provides useful information



2.3.2 Unavoidable dangers and risks unavoidable

On the electromagnetic valve also equipped with protection systems remain the following **B.B. RESIDUAL RISKS**:

A - Danger due to electricity in general

B - Danger due to inhalation of dangerous vapours to health and fire danger

C - Danger due to problems/malfunctions of the electromagnetic valve

This can lead an excessive increase of dispensing of glue as well as a fire danger or dangers due to inhalation of dangerous vapours to health.

D - Risk due to the projection of fluids under pressure

In case of improper maintenance of the hydraulic system parts.

F - Risk of fire

Prohibition of smoking and/or high temperature objects near the electromagnetic valve.

2.3.3 Safety devices adopted

In order to safeguard the health and security of the exposed people, the electromagnetic valve is equipped with:

- · Fixed quards: removable only by tools
- Mobile guards: depending on the model of electromagnetic valve

The electromagnetic valve can be equipped with area delimiters that prevent operator access to dangerous areas (see R.R.).

2.3.4 More general safety precautions

CAUTION: The maintenance operations must be peremptorily carry out by gualified and authorized personnel, only and exclusively with electromagnetic valve turned off; power switch in "OFF" position. Make sure the passages around the electromagnetic valve are not hindered by misplaced cables and dangerous for personnel. The user must always put available to the operators, in the areas that require it, safety googles, gloves, and any other necessary protections; it must also make sure that these safequards are being used. The areas that require the use of protective clothing must be marked with warning signs and pictograms indicating the residual risk.



CAUTION: IS ABSOLUTELY FORBIDDEN to tamper or remove the plates and the protections on the electromagnetic valve. The manufacturer declines all responsibility for the safety of the electromagnetic valve in case of omitted observance of the prohibition.

CE norms signage: examples of danger symbols













2.4 Environmental condition

Operating environmental conditions

The electromagnetic valve is designed to operate in a closed local, protected from the atmospheric agents, with all the safety requirements resulting from the laws in force.

Waste disposal

The buyer is responsible to follow the correct process and the norms in force in the country for the disposal of waste and residual material.

Disposal

The pick up of special and/or toxic-noxious waste must be committed with contract to specifically authorized companies and who do the transport materially must be in ownership of the required authorizations and must be turn out to be registered in the haulers register.

It's absolutely forbidden to throw waste in the environment.

For the disposal of the packaging, the user must follow the laws in force in the country of plant installation.



CAUTION: The customer must provide an appropriate fire-fighting system, evaluating its internal situation and respecting the laws in force. In case of fire, disconnect immediately the power switch to interrupt the power supply.



CAUTION: explosive atmosphere The electromagnetic valve is not designed to operate in explosive atmosphere. It is forbidden to use the machine in an explosive atmosphere, even if only partially explosive.

Lighting

The customer is responsible for ensuring an appropriate lighting of the local where the machine is installed, according to the laws in force in your country and the EU directives.

Vibrations

The electromagnetic valve doesn't make vibrations.

2.5 Installation - General instructions

DAV Tech's products are manufactured in compliance with the laws in force during its construction. The personnel will be trained and qualified to take advantage of the installed electromagnetic valve requirements.

The personnel must operate in a comfortable space that could be guarantee safety and hygiene for the operator. In case of a different destination or necessity of use of the electromagnetic valve, it's appropriate to refer to the technical offices of the DAV Tech Srl.

Goods in packaging

Outside the package are indicated all the information about the content identification and the safetymovement:

- · address of the sender and the addressee
- · dimensions: length -width height
- · gross net- tare weight
- · annotations and pictograms (ex. brittle, handle with care, high)



Predispositions: choose the installation space

Without prejudice to specific dispositions, the customer will be provide to:

- · Appropriate logistic arrangement for the placement and conduction of the electromagnetic valve
- · Power supply, including the protective conductor usually called "GROUNDED"
- · Electrical equipment arrangement and possible pneumatic system, if required
- Wear materials

For the electrical connection it is necessary to have a preferential line of power supply with the features listed in "technical features".

2.6 Use of adhesives, glues or other fluids

The use of the valve with adhesives, glues or general fluids must be respect the following basic rules. Before use a specific type of fluid check that:

- . The fluid viscosity is compatible with the features of the valve
- . The characteristics of the fluid meet the desired requirements
- The datasheet of the fluid provided by the manufacturer includes all the informations about the fluid such as: viscosity, applications, gluing time (for glues or adhesives) and storage
- . The storage time of the fluid has not been exceeded
- The fluid has not been exposed to temperatures near or below than zero therefore it has deteriorated
- The packaging of the fluid are sealed

For the use of special adhesives, glues or fluids we recommend to contact the DAV Tech company to verify the compatibility of the application.

Before use a different type of fluid clean accurately the valve to avoid possible contamination of the new fluid.

When used water-based adhesives of glues they are easily removable with water in their liquid state. However, when they harden is more difficult to remove it. For this reason, before long stop it is recommended to wash accurately the valve. Please refer to the maintenance program shown in this manual.

3 TECHNICAL DESCRIPTION

3.1 Valve functions

The electromagnetic valve DAJ 100 has been designed and realized for its use on various kind of production machines operating at high speed: its design and versatility make it ideal for any applications that require the use of dispensing valves.

It's an high-speed dispenser of low and medium viscosity glues, adhesives and fluids (max 2500 mPas).

It can be dispense glue dots or glue lines. It is controlled by a DAV Tech's microprocessor control or by an instrument of external control after testing and approval of DAV Tech company.

Full stainless steel valve, zero cavity long nozzle (LV), needle with ceramic ball. The micrometric adjustment allows a fine control of dot and line size.

Fluid types

- · adhesives and glues
- paints
- inks
- mastics
- · low viscosity fluids

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3.2 Technical data

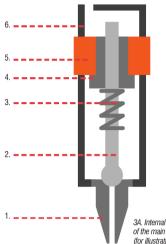
Model	DAJ 100
Available nozzle diameters	from 0,3 to 1,8 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 2500 mPas
Maximum working pressure	25 bar
Maximum working frequency	350 dots/sec.
Coil	6, 12 or 24 Volt
Weight	330 g



3.3 Functioning description

The valve 3A is composed mainly of:

- 1. Nozzle
- 2. Needle with a ball
- 3. Spring
- 4. Guide sleeve
- 5. High frequency coil
- 6. Body valve



3A. Internal section diagram of the main components (for illustration only)

Functioning diagram

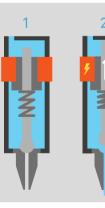
1

When the valve is not activated, the needle closes the nozzle seat, pushed by a spring, and stops the fluid under pressure to flow out from the nozzle hole.

2

Once the coil is activated, the needle moves back, allowing the fluid flow to come out from the nozzle. Deactivating the coil, the needle comes back to the closure position.

For the dots application this sequence is realized hundreds of times per second.

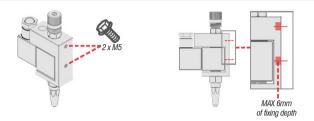


4 INSTALLATION

4.1 Fixing of the valve

The DAJ 100 valve must be fixed on a proper bracket thanks to the threaded holes (M5 dimension) machined on the valve body. A vibration-free environment and a good accessibility for regulation, cleaning and maintenance and a good fixing of the valve to the support/bracket and of the latter to the machine must be guaranteed.

The maximum fixing depth of the fixing screws in the body valve is 6 mm. To avoid coil damage don't exceed to this measure.

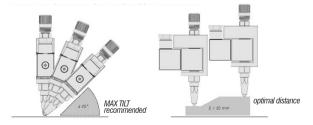


4.2 Contact-less gluing application

Where is possible it's always better to adopt this type of application because it is convenient both for the ease of application and to avoid the wear of the nozzle.

The **ideal working position** of the valve is vertical, with the nozzle facing downwards. It's possible to tilt the valve of $\pm 45^{\circ}$ degrees (see next page).

The **optimal distance** between the nozzle and the surface to be glue is between 5 and 10 mm (see next page). Other different positions are possible upon approval of the DAV Tech.

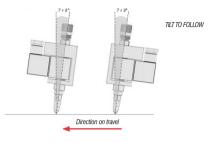




4.3 Contact gluing application

The contact gluing application is used when is necessary to dispense very thin glue lines.

In this case the valve must always be positioned vertically, with the nozzle facing downwards but with an **inclination of 7 + 8°** with respect to its axis towards the direction of travel and the nozzle must lightly touch the surface to be glued.

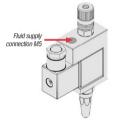


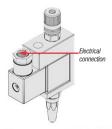
4.4 Fluid supply connection

The valve must be connected to a glue feed units*. A flexible plastic pipe* (for applications up to 8 bar) must be connected to a pipe fitting (M5)* to be screwed on the fluid supply connection of the valve.

For applications with working pressure over 8 bar use fittings and pipes* for high pressure must be used.htly touch the surface to be glued.

*Parts are supplied separately





4.5 Electrical connection

Connect an electrical cable* with cross-section not less than 0.35 mm to the coil connector. The valve must be electronically controlled by a DAV Tech's microprocessor control or atternatively with an instrument tested and approved by DAV Tech.

*Parts are supplied separately

5 VALVE ADJUSTMENTS

5.1 Fluid quantity adjustment

The adjustment of the dispensed fluid quantity (ex. glue) by the valve is determined by:

- The nozzle diameter: greater diameter > more fluid quantity
- The fluid pressure: greater pressure > more fluid quantity
- . The needle travel adjustment: greater needle travel > more fluid quantity

Operating on this points it's possible to adjust the dispensed fluid quantity.

5.2 Needle travel adjustment

To adjust the needle travel, operate on the micrometric adjustment handle placed on the top of the valve. This handle allows to adjust with a fine control the dots or lines size that are dispensed.



A. Turn counter-clockwise to increase the needle travel therefore the dispensed fluid quantity.



Be careful not to unscrew too much the adjustment, because above a certain limit the magnet inside the valve will go out from its working range, obstructing the correct valve operating.

B. Turn clockwise to decrease the needle travel therefore the dispensed fluid quantity. At the end of the needle travel, the valve is completely closed, therefore it doesn't dispense any fluid.



Don't tighten with excessive force the needle adjustment handle to avoid damage to the nozzle and needle.







6 MAINTENANCE

6.1 General norms

The electromagnetic valve DAJ 100, thanks to the construction methods and employed materials, is easy to maintain. A minimal, simple, accurate and constant maintenance allows a long-lasting and regular functioning of the valve, keeping uncharged its performance.

- For the general cleaning of the valve don't use metallic, sharp or pointed objects. Use only soft brushes or cotton rags.
- All the maintenance works on the valve must be performed by qualified personnel and after the supply
 pressure system has been discharged
- For the nozzle cleaning use only cleaning needles supplied by the valve manufacturer: if you use other sharp objects the nozzle could be damaged
- · Use only original spare parts
- The valve must be washed only and exclusively with water, especially if you need to replace the nozzle
 or the needle
- · Every evening and if you expect a long work break put some grease on the nozzle tip

6.2 Maintenance program

	TIMING*	WHAT TO DO
1	Every day, before the start production	 Do a valve test Clean the valve externally
2	Every day, at the end of production	 Do a valve test Clean the valve externally Put some grease on the nozzle tip
3	Before a production break longer than two weeks	 Drain the fluid from the system and wash it completely with water Leave the system with water inside
4	After a production break longer than two weeks	Discharge the water from the system and fill it with the adhesive fluid
5	Every month or after 2000 working hours	As point 3 and 4
6	Every year or after 4000 working hours	As point 3 and 4Replace possible worn parts

*Approximate values that can change depending on the type of glue, adhesive or fluid used. For the use of special fluid we recommend to contact the DAV Tech company for any questions.

6.3 Cleaning and / or replacement of the nozzle

Before you disassembling, cleaning or replacing the nozzle the following steps must be done:

- · Wash the valve with water
- · Discharge the pressure from the supply system

Then proceed as follows:

 Loosen the micrometric adjustment handle, turning it counter-clockwise until it doesn't resist anymore;





2. Unscrew the nozzle with a 10mm wrench by holding the guide sleeve with a 15mm wrench;

After removing the nozzle, to clean it:

Put the nozzle under running water then blow it with compressed air and clean the nozzle hole with the cleaning needle;

4. Repeat the step until you have removed all the impurities inside and outside the nozzle;

5. Screw the nozzle on the valve with a 10mm wrench.





6.4 Valve disassembly

Before you disassembling the valve the following steps must be done:

- · Wash the valve with water
- Discharge the pressure from the supply system

Then proceed as follows:

1. Unscrew the coil connector screw;

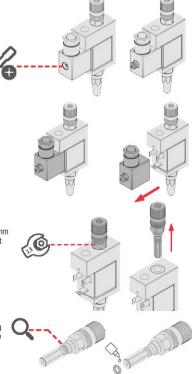
2. Then pull out the coil connector;

 Unscrew the micrometric adjustment with a 13mm wrench, then pull it out (don't operate on the adjustment handle);

 Check the wear of the micrometric adjustment O-ring and if it is necessary, replace it. Always grease* the new O-rings before assembling them;

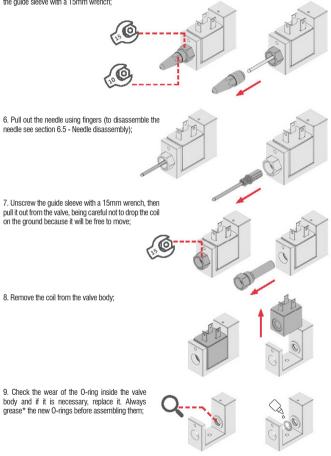
*Use silicon-based grease or oil specific for O-rings. For any questions or information contact the DAV Tech company.



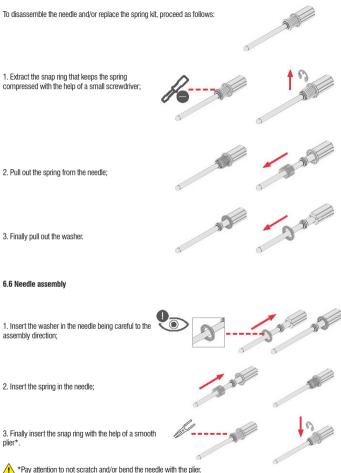


DAVtech

5. Unscrew the nozzle with a 10mm wrench by holding the quide sleeve with a 15mm wrench:



6.5 Needle disassembly



6.7 Valve assembly

Before to assembling the valve the following steps must be done:

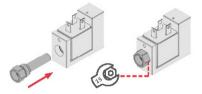
- · Remove the residual glue from the valve using a wet rag or soft brush
- Clean the nozzle and if it is necessary put it under running water then blow it with compressed air and clean the nozzle hole
 with the cleaning needle
- · Check the wear of the O-rings and if it is necessary replace it
- · Before the assembly always grease the O-rings

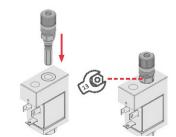
Then proceed as follows:

1. Place the coil into the valve body being careful to the assembly direction;







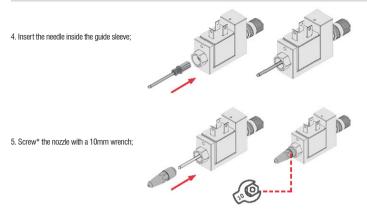


2. Insert the guide sleeve through the valve body and the coil, then screw it with a 15mm wrench;

3. Insert the micrometric adjustment and with a 13mm wrench screw it into the valve body;



ELECTROMAGNETIC JET VALVE DAJ 100

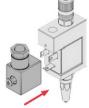




*Before screw the nozzle, check the micrometric adjustment handle is completely loosened to avoid damage to the nozzle and needle. To loosen the handle, turning it counter-clockwise until it doesn't resist anymore.



6. Insert the coil connector;





Row

7. Finally screw the coil connector screw.

7 TROUBLESHOOTING

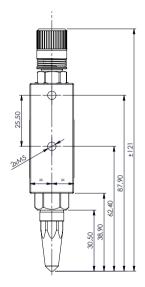
CAUTION: the trouble shooting must be performed only by qualified personnel observing the safety norms.

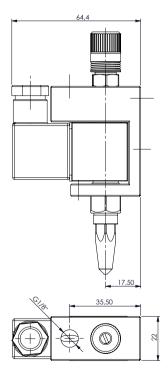
PROBLEM	POSSIBLE CAUSE	SOLUTION	
No or little quantity of dispensed fluid	The valve doesn't receive any signal	Check the cables of the valve, the start sensor and the encoder; Check the functioning data setted on the control; Make a manual test	
	The pressure of the fluid is low or missing	Check the supply pressure	
	The nozzle is clogged	Unscrew and clean the nozzle	
	The filter is dirty (If in use)	Wash or replace the filter	
	Bent pipe	Check the condition of the supply pipe	
	Residual glue into the system	Wash the complete system	
Leak of fluid from the adjustment	Adjustment O-ring is damaged	Replace the adjustment O-ring	
Leak of fluid from the top of the coil	O-ring inside the valve body is damaged	Replace the O-ring inside the valve body	
Nozzle drips fluid even if the valve is not activated	Presence of dirt inside the nozzle	Clean or replace the nozzle	
The valve is activated with a lag	The needle spring is deteriorated	Replace the needle spring	



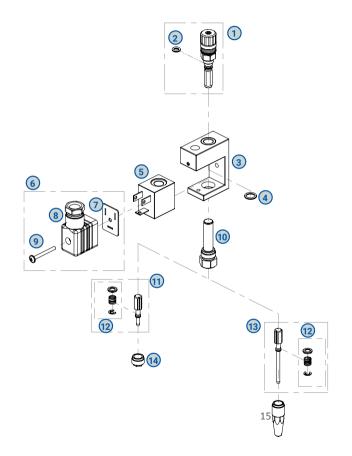
8 ESPLOSO E DIMENSIONI

8.1 Dimensioni DAJ 100





8.3 Spare parts DAJ 100





8.4 Spare parts list DAJ 100

Ref.	Description	Q.ty	Code
1	MICROMETRIC REGULATION	1	B27000023
2	0-RING	1	K92010401
3	BODY VALVE	1	B27000016
4	O-RING	1	K92010901
5.1 5.2 5.3	COIL 6 VOLT COIL 12 VOLT COIL 24 VOLT	1	B27000052 B27000056 B27000053
6	CONNECTOR COMPLETE	1	CNN000027
7	GASKET CONNECTOR	1	GSK000020
8	COIL CONNECTOR	1	CNN000028
9	SCREW CONNECTOR	1	SC81030302
10	BUSH	1	B27001300
11	NEEDLE KV	1	B27003200
12	SPRING KIT	1	B27003500
13	NEEDLE LV	1	B27003300
14.1 14.2 14.3 14.4 14.5	NOZZLE KV 03 NOZZLE KV 05 NOZZLE KV 08 NOZZLE KV 10 NOZZLE KV 15	1	H85210103 H85210105 H85210108 H85210110 H85210110 H85210115
15.1 15.2 15.3 15.4 15.5	NOZZLE LV 03 NOZZLE LV 05 NOZZLE LV 08 NOZZLE LV 10 NOZZLE LV 15	1	NZLE010203 NZLE010205 NZLE010208 NZLE010210 NZLE010215
	GASKET KIT COMPLETE		GASKETKIT-DAJ100

DECLARATION OF CONFORMITY



Brand: DAV Tech Srl Address: Via Ravizza, 30 - 36075 Montecchio Maggiore (VI)

DECLARE THAT the ELECTROMAGNETIC VALVE DAJ 100

Is in compliance with UE directives, with relation to the following ones and/or parts of them

applicable to this product:

- Directive 2006/42/CE of European Parliament and Council of the 17th of May 2006 regarding to machines and that modify directive 95/16/CE (recasting)
 Directive 2014/35/UE of European Parliament and Council of the 26th of february 2014 regarding the harmonization of the UE Countries laws about the the making available on the market of electrical equipment intended to be used within certain voltage limits (recasting)
 Directive 2014/30/UE of European Parliament and Council of the 26th February 2014
- regarding the harmonization of the UE Countries laws about the electromagnetic compatibility (recasting)

Montecchio Maggiore, 02 April 2019

The legal representative

Andrea Grazioli fe

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We reserve the right to modify at any time, without notice, the specifications, dimensions and weights in this manual. The illustrations are not binding.