

Installation and maintenance guide



DISPENSING VALVE DA 600



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1 INTRODUCTION

1.1 The manual

The user guide is the document that accompanies the valve from the time of its construction and throughout the period of use, it is therefore an integral part of the valve. It requires reading the manual before taking any action involving the valve. The manual must be readily available for use by staff and maintenance of the valve. The user and the attendant use are required to know the contents of this manual.

Reproduction of any part of this manual, in any form, without the express written permission of DAV Tech. The text and illustrations in this manual are not binding, the DAV tech reserves the right, at any time and without notice, the right to make any changes to improve the product or for reasons of character manufacturing or commercial.

1.2 Warranty

The warranty is valid for a period of 12 months from the date of commissioning and no later than 15 months from the date delivery. The interventions carried out during the warranty period does not extend in any way the validity period of the guarantee. The seller is not liable for defects caused by normal wear of parts which by their nature are subject to wear.

1.3 Goods receiving

The original configuration of the valve must never be changed.

Upon receipt of the goods, check that:

- The packaging is intact
- The exact correspondence of the material ordered.

2 TECHNICAL DESCRIPTION

2.1 Technical Specification

Model	DA 600
Material pressure	DA 600-18 max. 50 bar / DA 600 -SY max. 50 bar
Control air pressure:	min. 6 bar
Measurements:	145x201x36 mm
Weight:	approx. 700 g
Valve body:	Special version for applying beads, handhold made from stainless steel, gun body chemically nickel plated, all wetted parts made from stainless steel or chemically nickel plate
Nozzle:	stainless steel
Needle:	stainless steel
Gaskets:	Viton® (other materials on request)

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2.2 Purpose of the document

These instructions

- > are intended as an important source of information and reference material for personnel who install and operate the device.
- > describe the working procedures, assembly and servicing of the product.
- > provide important advice for handling the product safely and efficiently.

2.3 Explanation of symbols

Important information, such as safety instructions, is identified by corresponding symbols.

It is essential to heed this information in order to prevent accidents and damage to the device.



WARNING! Risk of injury!

This symbol identifies all safety instructions in these Operating/Installation Instructions. Failure to observe them presents a risk of injury or death. Carefully observe these work safety instructions and exercise particular caution when you see this symbol.



WARNING! Electrical hazard!

This symbol draws attention to hazardous situations due to electric current. Failure to observe the safety instructions poses the risk of injury or death. The work to be carried out must only be performed by a trained electrician.



IMPORTANT! This symbol identifies all safety instructions in these Operating/Installation Instructions which must be observed as failure to do so could result in damage to and/or malfunction of the device.



NOTE! This symbol draws attention to useful tips and other information in these Operating/Installation Instructions. All such information should be observed in the interests of effective device operation.

2.4 Intended use

The DA 600 valve has been built according to the EC directive in line with the latest state of the art and the recognised rules of engineering.

Nevertheless, its use can present risks to the life and limb of the user or third parties, or can impair the machine or cause other damage.

The DA 600 valve is a needle valve for dispensing material either continuously or intermittently.



IMPORTANT!

**Only use the DA 600 valve for its intended purpose and in an entirely safe operating condition!
This is the only way to ensure operating safety!**

2.5 Reasonably foreseeable incorrect use



WARNING! Risk of injury!

Using the automatic valve in a way other than intended can lead to serious damage!

Using them in a way that differs from or goes beyond the intended use is considered improper use!

For damage arising from improper use:

- > the operator bears sole responsibility.
- > the manufacturer accepts no liability.



NOTE!

Under no circumstances may aggressive materials such as acids, alkalis, cleaning agents, chemicals, poisons, highly flammable or similar substances or gases be used.

Consult the manufacturer if you have any doubt as to whether a material is suitable for use.

2.5.1 Modifications or changes



NOTE!

Unauthorised modifications or changes invalidate any liability or warranty on the part of the manufacturer.



IMPORTANT! Do not make any changes or additions without consulting the manufacturer and obtaining written agreement!

2.4.2 Spare parts, wearing parts and auxiliary materials



IMPORTANT!

Using spare and wearing parts from third third-party manufacturers can present risks. Only use original parts or parts approved by the manufacturer!



IMPORTANT!

The manufacturer accepts no liability for damage arising from the use of spare parts, wearing parts or auxiliary materials that have not been approved by the manufacturer!

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2.6 Risks associated with using the product

During use, there is a possible risk of:

- > injury to life and limb of the operator or third parties.
- > damage to the product itself.
- > other damage.



NOTE!

Knowledge of the safety and user instructions in this manual is the basis for safe and fault-free operation.



IMPORTANT!

The Operating Instructions must always be kept at the place of use! The Operating Instructions must be freely accessible at all times to operators, servicing personnel, etc.

The following must also be observed:

- General and local regulations on accident prevention and environmental protection.

The following risks in particular should be taken into account:



WARNING! Risk of injury!

Danger from the device out high high-pressure fluids.

Always wear personal protective equipment when working on the device!



WARNING! Risk of hearing damage!

Hearing damage may result from the volume and length of exposure to noise.

Wear ear protection when working with the device!



WARNING! Danger from pneumatic energy!

The pneumatic energy can cause severe injury. If a component is damaged, high high-pressure materials can escape and cause injury and damage!

Therefore:

- Before beginning work on the pneumatic system, always depressurise the device first.
- Do not remove safety equipment or disable it by modification.
- Do not set the pressures higher than the values specified in the Operating/Installation Instructions.

2.7 Residual risks



WARNING! Danger!

Pay attention to the possibility of residual mechanical and pneumatic energy.

**WARNING! Danger!**

In addition to the precautions recommended by the manufacturer, the operator must take appropriate steps to guard against the risks arising from residual energy. Personnel must be instructed about the risks and the countermeasures to be taken.

**WARNING! Danger!**

Danger from pressurised media. Installation, servicing, fault finding, cleaning the device, etc. must only be done when the device is in an unpressurised state.

**WARNING! Danger!**

Pay attention to the possibility of residual electrical energy.

**WARNING! Electrical hazard!**

The electrical energies can cause severe injury. Electricity presents mortal danger if the insulation or individual components are damaged.

Therefore:

- Switch the main switch off and secure it against being switched back on before starting any servicing, cleaning or repair work.
- Before beginning work on the electrical system, always switch off the electricity supply to the device first.
- Do not remove safety equipment or disable it by modification.

**IMPORTANT!**

The device is used in a machine or plant and does not have a dedicated controller.

The user must ensure that the device is integrated in the machine or plant control system in compliance with the applicable accident prevention regulations.

Note the following in relation to this:

- > The machine or plant control system must disconnect all power supply cables in the event of a power failure or emergency stop. After the power supply is restored, the device must not make any uncontrolled movements.

**Imperative!**

The personal protective equipment listed here must be worn when working on or with the product.

**IMPORTANT!**

The product is partly completed machinery. It must only be put into use when it is established that the machine into which the partly completed machine is intended to be incorporated meets the specifications of the applicable directives!

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2.8 Obligations of the operator

The operator is obliged only to allow persons to work with the product who:

- > are familiar with the fundamental regulations relating to work safety and accident prevention.
- > have been instructed in working with the product, and
- > have read and understood these instructions.

The operator must also identify any other hazards that may arise from the special working conditions at the place of use of the product by carrying out a risk assessment pursuant to Ordinance on Industrial Safety and Health. In relation to the risk assessment, operating instructions pursuant to Ordinance on Industrial Safety and Health must be prepared, which combine all further instructions and safety instructions.

The operator will also make the required protective equipment available to the personnel. A list of the necessary personal protective equipment can be found in chapter 2.9.



NOTE!

The requirements of the EC Directive on the Use of Work Equipment 2009/104/EC must be satisfied.

2.9 Obligations of the operating personnel



IMPORTANT! Only authorised, trained and instructed specialist personnel are permitted to handle the product.

All persons who are required to work on the product are obliged, before starting work:

- > to observe the fundamental regulations relating to work safety and accident prevention.
- > to have read and understood these instructions.
- > to wear the personal protective equipment according to chapter 2.9.



NOTE!

Please contact the manufacturer of the product if you have any unanswered questions!

2.10 Personal protective equipment



Close-fitting working clothes!

(low tear strength, no wide sleeves, no rings or other jewellery, etc.)



Safety goggles!

(to protect the eyes against airborne items and fluids)



Protective gloves!

(to protect the skin against friction, abrasions, aggressive materials, punctures and deep injuries to the hands)



Ear protection!

(to protect against hearing damage when the sound pressure level is above 80 dB (A))

**NOTE!**

The use of personal protective equipment depends on the environment where the device is used and on the medium being employed. For this reason, also observe the risk assessment of the workplace prepared by the operator.

2.11 Liability and warranty

All information and instructions for the operation, servicing and cleaning of the device are based on our past experience and results, and are given to the best of our knowledge.

We reserve the right to make technical modifications in the interest of enhancement of the device described in these Operating/Installation Instructions.

Translations are also provided to the best of our knowledge. We cannot accept responsibility for errors in translation. The supplied Italian version of the Operating Instructions remains authoritative.

The descriptions and illustrations may differ from the product supplied. The drawings and diagrams are not to scale. It is forbidden to pass these Operating/Installation Instructions on to third parties and will result in liability for damages.

2.11.1 Warranty

A warranty with the following scope is provided for this device:

All such parts as prove to be unfit for use or whose fitness for use is greatly compromised within 24 months for one-shift, 12 months for two-shift and 6 months for three-shift operation since handover to the purchaser due to a cause predating this handover – in particular faulty design and defects in materials and workmanship – will be repaired or a replacement supplied at our discretion free of charge.

The warranty takes the form of replacement or repair of the device or individual parts thereof, at our discretion. Expenses hereby incurred (transport, toll, labour or material costs) are borne by us, unless the expenses increase because the device was subsequently brought to a location other than the customer's premises. These extra expenses are the customer's/purchaser's responsibility.

We provide no warranty for damage caused exclusively or partly by the following:

improper or unsuitable use, incorrect installation and/or putting into operation, natural wear and tear, incorrect handling and/or servicing, unsuitable coating substances, substitute materials and/or chemical, electrical and/or physical effects, unless we are responsible for them.

This declaration does not affect statutory rights or the contractual rights stemming from our general terms and conditions of business.

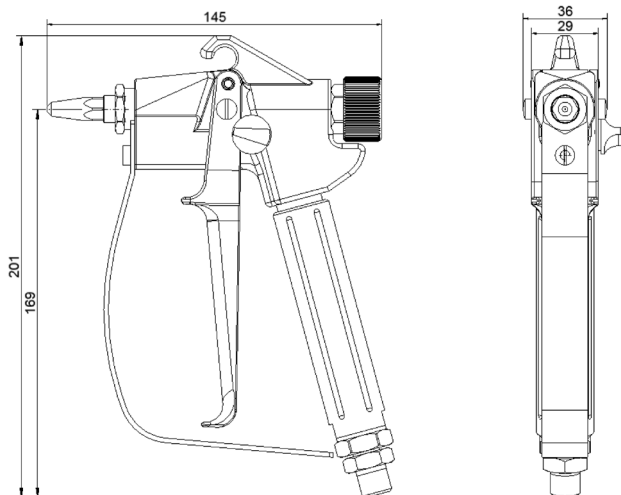
2.11.2 Wearing parts, lifetime warranty

Wearing parts are all parts that come into direct contact with the material and/or are subject to wear and tear due to their function (e.g. nozzles, needles, air caps, seals, O-rings, sealing screws, pistons, etc.). Such parts are excluded from warranty and defect claims in so far as they are based on wear and tear. The replacement of a part does not extend the warranty period of the device.

3.2 Spare parts list DA-600

Ref.	Description	Code
1.1	LUER LOCK ADAPTER	212351
1.2	M 1/4" GAS LUER LOCK ADAPTER	211307
2	NOZZLE ADAPTER	220083
3	MAIN BODY	510215
4	CONICAL ELEMENT	320081
5	TEFLON COLLAR	640095
6	GUIDE ELEMENT	320082
7	CUP SPRING (X 1 PC)	820060
8	PRESSURE SCREW	320080
9	NEEDLE COMPLETE	112436
10	SPRING	820034
11	REGULATION WASHER	620008
12	NEEDLE REGULATION	220082
13	REGULATION SCREW	610477
14.1	SWIVEL JOINT M 1/4" GAS	220302
14.2	SWIVEL JOINT M 3/8" GAS	220303
15	HANDLE GRIP	910080
16	HANDLE GRIP LEVER	190014
17	HANDLE GRIP SAFETY	500020
18.1	FILTER DA-600 - 50 MESHES 320 MICRON	530012
18.2	FILTER DA-600 - 100 MESHES 150 MICRON	530011
18.3	FILTER DA-600 - 200 MESHES 84 MICRON	530010
19	TEFLON SEAL	640096
20	HANDLE PROTECTION SCREW	610086
21	LEVER SAFETY	320087
22	SCREW (X 1 PC)	610085
23	SCREW	610005
24	CUP SPRING (X 1 PC)	820031
25	CYLINDRICAL PIN	320086
GASKET KIT COMPLETE		GASKETKIT-DA600

3.3 Dimensions DA-600



4 INSTALLATION



WARNING! Risk of injury!

The pneumatic energy can cause severe injury. If a component is damaged, high high-pressure materials can escape and cause injury and damage!

4.1 Assembly

The manual valve DA 600 can be used in any position.

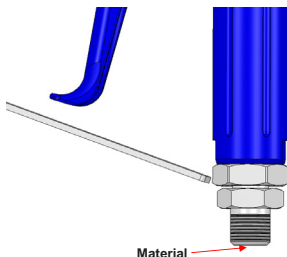
The distance between nozzle opening and application level depends on the required application width of the material. The greater the distance between nozzle opening and application level, the greater the application width of the material.

4.2 HOSE INSTALLATION

Material is supplied to the spray valve via a separate connection. The connection ports are differentiated as follows:

- **Material** (transparent or white)

Connection M: to pressure tank or pump



IMPORTANT!

To prevent malfunctions and damage to the valve and machine or plant, it is essential to ensure that the pressure lines are connected up to the correct hose connections on the valve.

Pressure line connection



WARNING! Risk of injury!

It must be ensured that the spray gun is adequately grounded via a conductive material hose, and is connected into the potential equalisation system. (maximum resistance $10^{-6} \Omega$)



WARNING! Risk of injury due to compressed air and material pressure!

Only qualified personnel may work on the pressure plant in accordance with the safety regulations.

When working on the pressure plant, be sure to:

- > Depressurise the plant before beginning work.
- > Not remove or disable safety equipment.
- > Not set pressures above the maximum permitted values.
- > Install all hoses safely so that the pressure lines cannot be damaged by moving machine or plant components.
- > Not put the pressure plant into operation until work is completed.

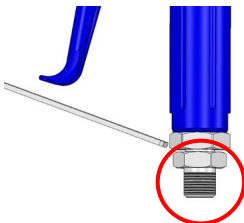
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Hose installation:

> Material connection:

The screw connection must be secure and airtight!

Important: Other connections must be correctly assembled!



IMPORTANT!

Only hoses which can withstand the maximum working pressure of the pressure line may be used.

4.3 Installation instructions



WARNING! Risk of injury!

To prevent personal injury and/or property damage, it is essential to observe the following when installing the device in a machine or plant:

The device must be installed in a machine or plant in such a way as to rule out hazards like:

- > the escape of high-pressure fluids
- > defects in the compressed air supply
- > electricity
- > malfunctions of the device, machine or plant
- > failure or malfunction of plant control
- > loud noises or interference with acoustic signals

in the vicinity. To protect persons working on the device, machine or plant, effective safety devices and warning signs must be put in place. In addition, relevant safety instructions must be incorporated into the Operating/Installation Instructions for the machine or plant.

4.4 Putting into operation



WARNING! Risk of injury!

Only trained qualified personnel may put the machine or plant into operation in accordance with the safety and accident prevention regulations.

**WARNING! Danger from material and substances!**

There is a risk of coming into contact with or absorbing coating substances and/or cleaning fluids. There is also a risk of inhaling fumes from fluids. Under some circumstances, this can cause lasting damage.

Always wear personal protective equipment when working on the device!

Make sure there is enough forced or natural ventilation.

Obtain medical advice if symptoms are noted!

Observe the following before putting the machine or plant into operation:

- > Ensure that no tools or other foreign bodies are inside the machine or plant.
 - > Check that the device and all other parts are secure.
 - > Check that all connections are on the correct ports and are secure.
 - > Check that the set pressures correspond to the ratings and connection values of the device.
 - > Check that safety devices are working.
1. Switch on power supply.
 2. Switch on material flow.
 3. Turn on device at plant controller.
 4. Check that device is functioning and operating correctly.
 5. Check that device is within all the specified set value ranges.

Once it has been established that the device is functioning perfectly, the device may be operated in accordance with all accident prevention regulations.

5 OPERATION**5.1 General and safety instructions for operation**

To prevent disruptions, device function must be checked regularly by trained supervisors.

**IMPORTANT!**

In the event of faults or irregularities, shut down the plant immediately and inform the local person in charge.

If device faults cannot be corrected (see chap. 7 "Faults"), inform the manufacturer's Customer Service. Only deploy instructed personnel for regular cleaning.

The device presents the following hazards during operation:**WARNING! Risk of injury!**

Danger from the device out high high-pressure fluids. Always wear personal protective equipment when working on the device device!

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WARNING! Risk of hearing damage!
Hearing damage may result from the volume and length of exposure to noise.
Wear ear protection when working with the device!



WARNING! Risk of injury!
Housing parts with sharp edges and pointed corners can cause skin abrasions.
Wear protective gloves when working on the device!



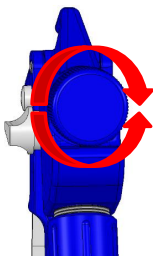
WARNING! Danger from material and substances!
There is a risk of coming into contact with or absorbing coating substances and/or cleaning fluids. There is also a risk of inhaling fumes from fluids. Under some circumstances, this can cause lasting damage.
Always wear personal protective equipment when working on the device!
Make sure there is enough forced or natural ventilation.



5.2 Operating instructions



WARNING! Danger!
If the spray parameters are not adequately adjusted, there is a risk of inhalation, contact with or absorption of coating substances or cleaning fluids.
Always wear personal protective equipment when working on the device!

- > If the material is kept pressurised with no contact with the outside air, it can remain in the valve during long periods without operation.
- > Only clean, filtered material may be used.



NOTE! The flow of material can be adjusted to suit individual requirements by turning the regulating screw:
Turn screw to the right: 
to reduce the material flow
Turn screw to the left: 
to increase the material flow



NOTE! The illustrations in these instructions may differ slightly from the actual version of the device. Incorrect handling can damage the nozzle and nozzle needle. Only reduce the material flow (by turning the regulating screw to the right) while the material is being dispensed. Once the nozzle closes, do not turn the regulating screw any further to the right.

5.3 Switching on

**WARNING! Risk of injury!**

Only trained qualified personnel may switch the device on and off in accordance with the safety and accident prevention regulations.

1. Switch on power supply.
2. Switch on material flow.
3. Turn on device at plant controller.
4. Check that device is functioning and operating correctly.
5. Check that device is within all the specified set value ranges.

5.4 Switching off

1. Shut down device at plant controller.
2. Switch off the material flow.
3. Switch off power supply.

5.5 Shutdown

Before shutting the device down for an extended period, the following steps must be taken in accordance with the safety regulations:

- > Switch off device and prevent it from being switched back on.
- > Remove material residue from the device.
- > Clean device inside and out.

6 MAINTENANCE AND SERVICING

Safety instructions

**WARNING! Risk of injury!**

Improper handling of the device carries the risk of severe personal injury and serious damage. Therefore, servicing and cleaning work must only be carried out by qualified personnel or personnel who have been specially trained in these tasks (training to be documented)!

**WARNING! Risk of injury!**

Only perform servicing and cleaning work on the device when the device and plant are at a standstill!



WARNING! Risk of injury!

There is a risk that components will be ejected! The valve must only be opened after the device has been depressurised and is not operational!



WARNING! Danger from material and substances!

There is a risk of coming into contact with or absorbing coating substances and/or cleaning fluids. There is also a risk of inhaling fumes from fluids. Under some circumstances, this can cause lasting damage. Always wear personal protective equipment when working on the device!

Make sure there is enough forced or natural ventilation.

Obtain medical advice if symptoms are noted!



WARNING! Danger!

The pressure spring inside the spray mechanism of the spray gun is compressed, and can be ejected from the spray gun during maintenance or cleaning work.

6.1 General and safety instructions for maintenance and servicing

Cleaning

The valve must be cleaned when

- > it is soiled by use
- > a different material is to be used
- > wearing parts have to be replaced.

This applies in particular to the nozzle needle, the sealing bush and the nozzle.



IMPORTANT!

Do not use any sharp sharp-edged, metallic aids for external cleaning; only use soft brushes.



NOTE!

Remaining spray media should be dealt with at appropriate time intervals.

Servicing

The manual spray valve is a high-quality precision device which will usually operate fault-free and without any servicing if handled correctly, provided that only clean, filtered material is used. It is also essential that the control air be clean and, ideally, supplied to the spray valve lightly oiled. Individual operating conditions and the properties of various materials require a minimum of care to be given to the device.

Before beginning any servicing work:

- > Put on personal protective equipment.
- > Switch off device and prevent it from being switched back on.
- > Switch off pressure plant and prevent it from being switched back on. Depressurise all supply pressure lines and disconnect them from the device.

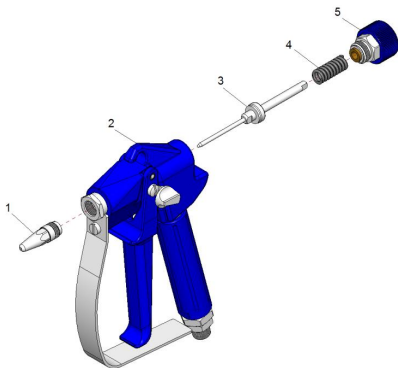
**NOTE!**

The device should be checked regularly for wear. It is not possible to specify when wear and tear may occur, since this depends on the material being processed, the switching frequency, and the conditions under which the device is used.

**IMPORTANT!**

Using spare and wearing parts from third party manufacturers can present risks. Only use original parts or parts approved by the manufacturer!

6.2 Replacing the nozzle needle and the nozzle



1. Depressurise all connections and stop the material supply!
2. Undo the locking screw / regulating screw (5) (Caution: The locking screw / regulating screw is under spring tension!)
3. Make sure that the pressure spring (4) does not get lost.
4. Withdraw the nozzle needle (3) and unscrew the nozzle (1).
5. Lightly grease the new nozzle needle (3) and push it into the body of the handle (2). Then remove any remaining grease from the needle tip.
6. Screw the new nozzle (1) into the body of the handle (2).
7. Only now should the locking screw / regulating screw (5) be screwed back onto the body of the handle (2). Make sure that the pressure spring (4) is installed again.
8. Perform a functional test of the device after changing the nozzle and needle!

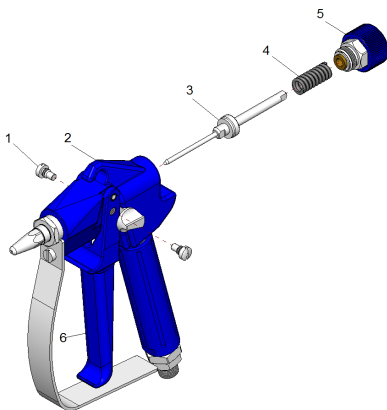
**IMPORTANT!**

Always install a new nozzle (1 if fitted) and nozzle needle (3) at the same time.

**NOTE!**

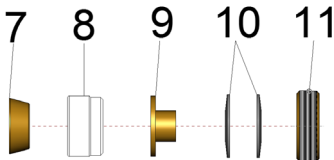
When installing nozzles and nozzle needles that have already been in use, they must first be cleaned of all deposits and material residues. Material residues in nozzles can result in leaks in the nozzle needle system, while nozzle needles with hardened material residues can cause damage to the sealing elements in the spray valve.

6.3 Adjusting and replacing the seal



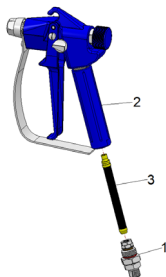
1. If there are any leaks in the sealing area (this can be seen by spray material escaping between the trigger (6) and the main body (2)), you should depressurise the liquid in the system.
2. The unscrew the adjusting unit (5) from the gun. Pull out the valve needle unit (3) with the pressure spring (4)
(Important: (The adjusting unit is under spring tension!))
3. Remove the two shoulder screws (1) from the trigger (6)
4. You can now use a screwdriver to turn the sealing screw (5.1.2) slightly in a clockwise direction. This increases the pressure on the PTFE collar (and the pressure cone). The pressure screw must be turned clockwise in small increments. Repeatedly re-insert the needle to check whether the needle requires some pressure to pass through the PTFE collar but still passes smoothly. The needle must not stick.
5. If the PTFE collar (8) is no longer completely airtight due to wear and tear, it must be replaced (see ch.6.3.1)

6.3.1 Replacing the seal



1. Proceed as described up to Section 3 in ch. 6.3.
2. Unscrew the nozzle.
3. Using a valve needle unit (3) as an installation aid, install the following parts in the given order: Thrust washer (11), 2 plate springs (10 = hollow sides against each other), guide for plate springs (9), PTFE collar (8) and pressure cone (7) are fitted in this order and are then inserted in the gun body so that the complete sealing unit is located in the front area of the sealing chamber of the gun.
4. As when adjusting the seal, the pressure on the collar and the pressure cone is increased by turning the pressure screw (11) in a clockwise direction.
5. Because the nozzle has been unscrewed and removed, you can check by inserting from the front whether the needle requires a little pressure to pass through the PTFE collar but still passes smoothly.
6. The spray gun is then re-assembled by carrying out the same steps in reverse order.

6.4 Replacing the filter)



1. Depressurise all connections and stop the material supply!
2. Unscrew the swivel joint (1) from the handle (2)
3. Remove the old filter (3)
4. Insert the new filter.
(Attention: Check the correct position of the filter!)
5. Perform a functional test of the device after changing the filter!

7 FAULTS

7.1 General and safety instructions in relation to faults

Mechanical or pneumatic faults must be rectified by personnel trained and qualified in the relevant area. The manufacturer must be informed of faults which cannot be rectified by the measures described.

7.2 In the event of a fault

In case of faults which pose an immediate risk for persons, property and/or the safe operation of the device or plant:
> Stop device immediately at the EMERGENCY OFF switch.

In case of faults which do not pose an immediate risk of personal injury or property damage:

- > Switch off device, machine or plant at the plant controller.
- > Prevent device, machine or plant from being switched back on.
- > Inform operator of fault immediately.
- > Have qualified personnel identify the type and cause of the fault.
- > Have qualified personnel rectify the fault.



WARNING! Risk of injury! Improper, incorrect work on the device, machine or plant poses serious risks of personal injury and/or damage. Therefore, only trained qualified personnel may correct faults. The notices and safety rules in chapter 6 "Maintenance and servicing" must be observed before, during and after all work to rectify faults faults!

7.3 Malfunctions

Fault	Possible cause	Rectification
No material comes out	Nozzle blocked by material	Clean the nozzle and the needle
	Material pressure too low	Check whether sufficient material pressure is being applied to the valve (see 3.2 Parameters)
Material leakage at the lever	Leaks at the gland seal, worn or faulty gland seal	Exchange/replace the gland seal

8 TRANSPORT, PACKAGING AND STORAGE

8.1 Transport

Always transport and store the device with great care:

- > Do not throw or drop the device.
- > Do not place objects on the device or packaging.
- > Protect the device from dirt, damp, heat and cold.
- > Do not use force when unpacking the device. Do not damage plastic parts.
- > If storing the device, leave it in its packaging until installation.

8.2 Transport inspection

Immediately on receipt of the device, check that it is complete and has not been damaged in transit. If you see external damage in transit, do not accept the delivery, or accept it only with reservation. Note down the extent of damage on the carrier's transport documentation/delivery note. Make a claim. Report hidden defects as soon as they are discovered, as claims for damages can only be made within the applicable deadlines.

8.3 Packaging

Only environmentally friendly materials are used for packaging.

Therefore, please follow these rules:

- > Separate different types of packaging material for environmentally friendly disposal.
- > Recycle recyclable materials.
- > Reuse reusable packaging materials.

8.4 Storage

Store device in its packaging until installation.

The following instructions apply to device storage:

- > Store in a dry place. Relative humidity: max. 60%.
- > Do not store in the open or in an aggressive atmosphere.
- > Protect from direct sunlight. Storage temperature: 15°C to 25°C.
- > Keep dust off device. Avoid mechanical vibration and damage.
- > Do not place underneath other objects or place other parts on top of it.

9 DISPOSAL

Collect all material residues from the processing, and dispose of them in an environmentally sound manner or - if possible - reprocess or recycle them.

All parts, auxiliary and operating materials for the valve:

- > Separate by type:
 - recycle metallic components
 - dispose of non-metallic parts properly and professionally
- > Dispose of according to local regulations and directives.

DECLARATION OF CONFORMITY



Brand: **DAV Tech Srl**

Address: Via Ravizza, 30 - 36075 Montecchio Maggiore (VI)

DECLARE THAT

the **NEEDLE VALVE DA 600**

CONFORMS TO THE REQUIREMENTS FOR CE MARKING

according to directives 2006/42/EC ANNEX I - DIN EN ISO 1953:2013-12

Any modification or tampering with them discharges DAV Tech from any responsibility.

Montecchio Maggiore, 16 July 2018

The legal representative

Andrea Grazioli

