

SB

pneumatic snuff back valve



Zator
gluing solutions

**USER AND
MAINTENANCE
MANUAL**





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UE Declaration of Conformity

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DECLARES

Under its responsibility that the pneumatic valve:

Model	SB	Year of manufacture	
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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)

Cusano Milanino

Legal Representative

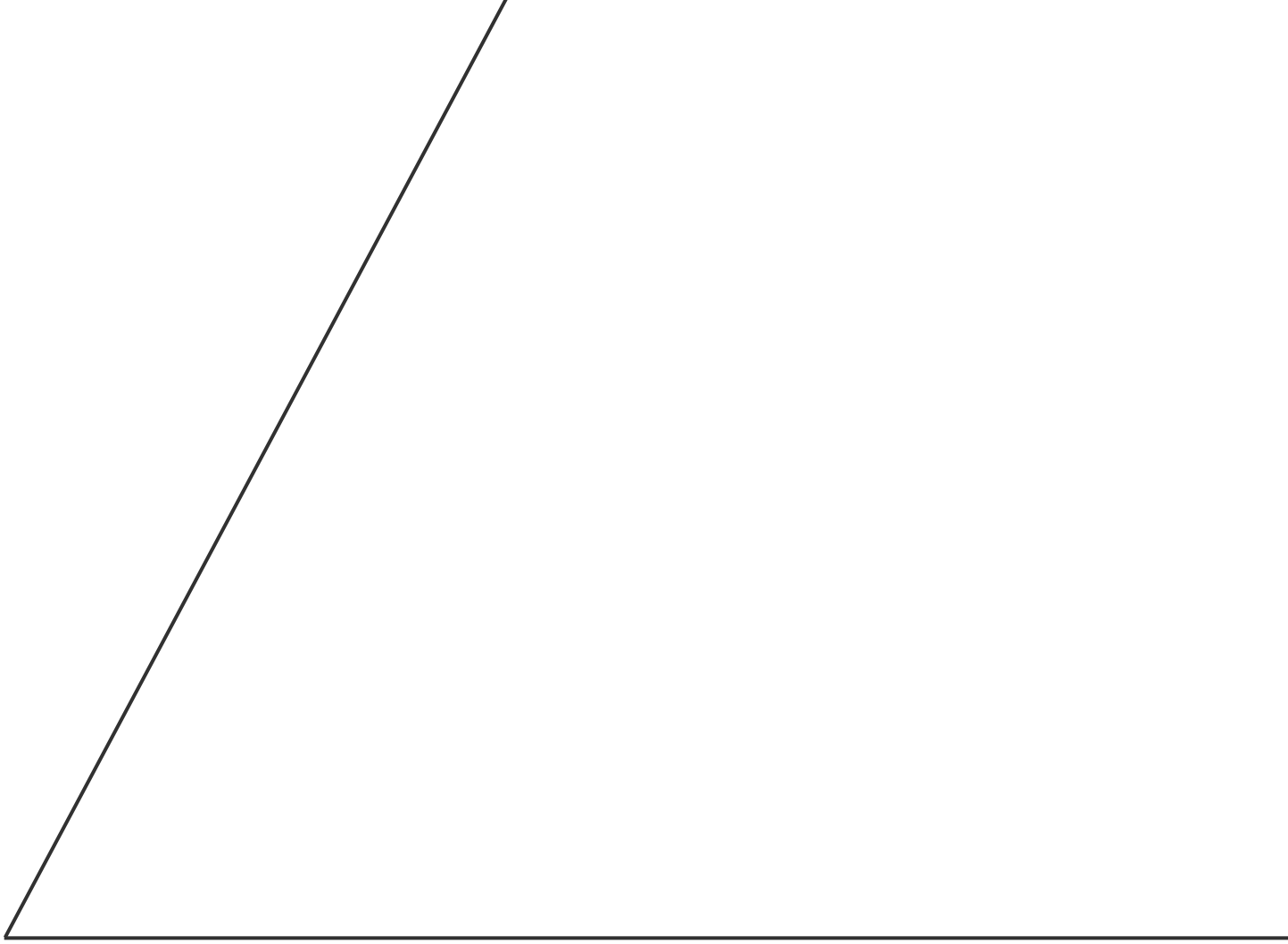


ZATOR S.r.l.

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USER AND MAINTENANCE MANUAL

pneumatic snuff back valve **SB**

1 GENERAL INFORMATION

1.1 Introduction

This manual is an essential part of the pneumatic 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.

Zator 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 Zator 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 Zator Srl.

The data and values expressed in the manual are approximate and variable depending on fluids, applications and methods of use.

Zator 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 Zator 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 pneumatic 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 Zator Srl 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 Zator Srl in the time compatibly necessary, understood that the Zator 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 Zator's technicians in the Buyer address are always on charge of the buyer.

The labor costs relative to the operation of the Zator's technicians in the Buyer address for the removal of flawed parts under warranty, are on charge of Zator Srl, except these cases when the nature of the flaw can be easily removed on place by the Buyer.

This commitment of Zator Srl excludes each other warranty effects provided by the law.

The warranty for the replaced or repaired spare parts of the pneumatic valve finishes the same day of the warranty expiration date of the pneumatic 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 Zator Srl with the machine.

It are excluded and renounced by the buyer every pretensions of items/people damages reimbursement on charge to Zator 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 pneumatic valve. Parts replaced free remain of Zator 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 pneumatic 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 Zator Srl.

The buyer, on penalty of warranty decadence, must report in writing the flaw conformity or fault of the pneumatic 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 pneumatic 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 pneumatic 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 pneumatic 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 pneumatic valve or faults that depends on changes, reparations, alterations 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 pneumatic valve are on charge of the buyer.



1.4 Maintenance service request

Contact:

Technical office of Zator S.R.L.

Via Galvani 11 - 20095 Cusano Milanino (MI) - Italy
e-mail: info@zator.it www.zator.it
Tel.: +39-0266403235 Fax.: +39-0266403215

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 pneumatic valve.

1.5 Spare parts request

The customer is responsible to purchase original spare parts that guarantee him to keep efficient and safe the pneumatic valve.

The disassembly and assembly operations must be performed according to the manufacturer's instructions.

Contact the Technical Office of Zator 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 pneumatic valve and those of spare part to be replaced.

The illustrations in this document are for example.

2 SAFETY RULES AND REGULATIONS

The pneumatic valve SB is designed and manufactured in compliance with the current safety standard. Only trained personnel is authorized to install and use the valve. For the pneumatic valve SB 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 pneumatic valve SB must be carry out in compliance with the following current safety rules and regulations written in part:

1. Rules of fire prevention
2. 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)
3. 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 pneumatic 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 microprocessor control. 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 microprocessor control 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 pneumatic valve, for any functions (installation, assembly, demolition, maintenance and operation) they will be provided with appropriate P.P.E. - 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 on the pneumatic 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.

2.3 Risks, protections, warnings and cautions

2.3.1 General safety

In accordance with the Machine Directive it means for:

DANGER ZONE = area within or near the pneumatic 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 pneumatic valve have been checked and consequently have been taken the necessary precautions to avoid risks to people and damage to the components of the electropneumatic 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 it is 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 valve. The maintenance and start-up operations must be performed by qualified technicians after properly setting up the valve.

The unauthorized tampering or replacement of one or more valve parts, the adoption of accessories that modify the original use of the 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:



CAUTION and/or DANGER – Accident prevention rules for the 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 **R. R. 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.

E - Risk of fire

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

2.3.3 Safety devices adopted

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

- Fixed guards: removable only by tools
- Mobile guards: depending on the model of pneumatic valve

The 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 qualified and authorized personnel.

Make sure the passages around the machine is 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 goggles, gloves, and any other necessary protections; it must also make sure that these safeguards 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 pneumatic valve.

The manufacturer declines all responsibility for the safety of the pneumatic valve in case of omitted observance of the prohibition.

CE norms signage: examples of danger symbols



Danger



High voltage



Flammable



P
Toxic



C
Corrosive



O
Combustive
agent

2.4 Environmental condition

Operating environmental conditions

The electropneumatic 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.

Fire material

There is no fire dangers by the operation of the pneumatic valve.



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 electropneumatic 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 valve is installed, according to the laws in force in your country and the EU directives.

Vibrations

The pneumatic valve doesn't make vibrations.

2.5 Installation - General instructions

Zator'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 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 valve, it's appropriate to refer to the technical offices of the Zator Srl.

Goods in packaging

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

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

CAUTION: The customer must check the condition of the goods upon its arrival.

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 pneumatic valve
- Power supply, including the protective conductor usually called "GROUNDED"
- Electrical equipment arrangement and possible pneumatic system
- Wear materials

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

Pneumatic connections



CAUTION: The compressed air must be free of humidity. It is necessary to assemble on the compressor one or more automatic condensation outlet; the air must be filtered and dried out. Make sure that in the pneumatic circuit is not inserted any type of substances (ex. lubricants or other substances).

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 Zator 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 *pneumatic snuff back valve SB* has been designed and realized for its use on various kind of production machines: its design and versatility make it ideal for any applications that require the use of extrusion valves.

It's a dispenser of medium and high viscosity glues, adhesives and fluids where high dispensing quantities are required; is pneumatically controlled by one external solenoid valve.



3.2 Technical data

Available nozzle diameters	from 1,00 to 4,00 mm
Valve body	nickel brass
Maximum working pressure	max 50 bar
Air pressure control	min. 5 bar
Drive type	simple action
Cycle time	40 ms
Weight	640 g



Dots and lines

fluid types

adhesives and glues

inks

paints

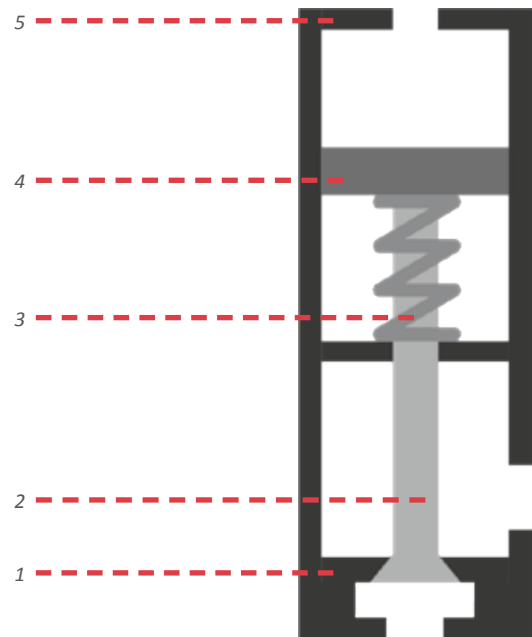
lubricants

low, medium and high
viscosity fluids

3.3 Functioning description

The valve ^{3A} is composed mainly of:

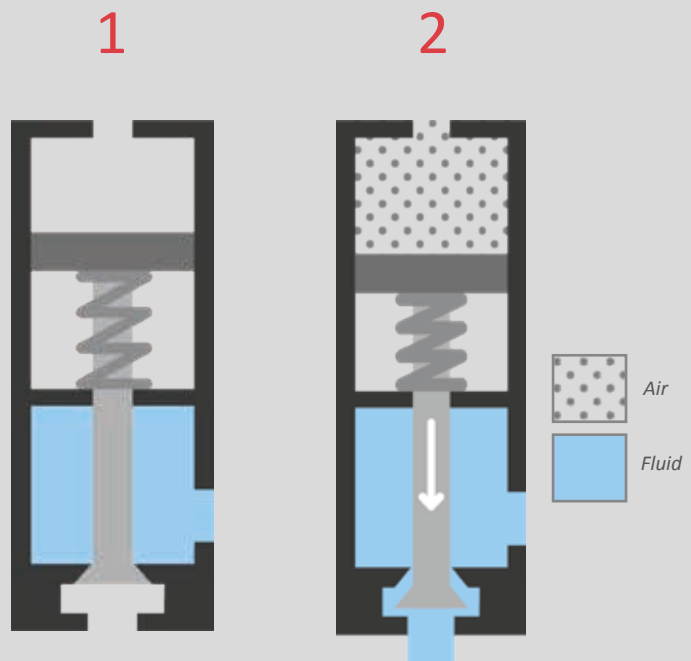
1. Seat
2. Needle
3. Piston
4. Spring
5. Valve body



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** When the 3/2 way external solenoid valve drive air to flow inside the piston chamber is activated, this action activated the valve. Then the piston moves back together with the needle, allowing the fluid flow to come out from the nozzle.

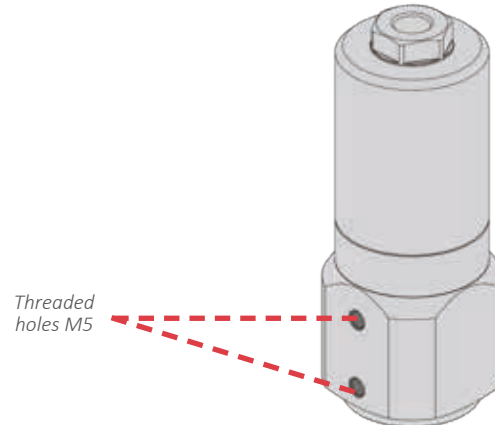


4 INSTALLATION

4.1 Fixing and placement of the valve

The *SB* valve must be fixed on a proper bracket by using the **M5 threaded holes** machined on the valve body.

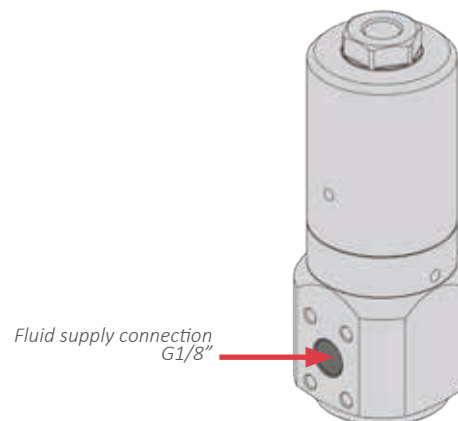
A vibration-free environment and a good accessibility for regulation, cleaning and maintenance and a good fixing of the valve to the support/bracket and of the latter to the machine must be guaranteed.



4.2 Fluid supply connection

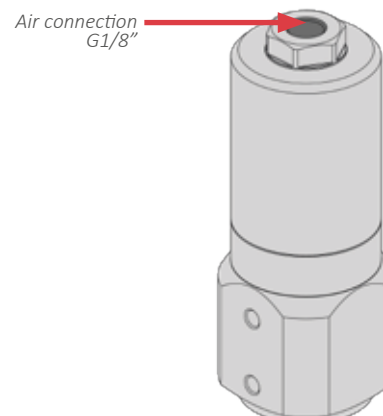
The valve must be connected to a *glue feed units**. A *flexible plastic pipe** (**for applications up to 8 bar**) must be connected to a *pipe fitting (G1/8")** to be screwed on the fluid supply connection of the valve. For applications with working pressure **over 8 bar** use *fittings and pipes** for high pressure must be used.

**Parts are supplied separately*



4.3 Drive air connection

Connect a *solenoid valve* to the air connection G1/8". The air pressure must be minimum 5 bar.



4.4 Fluid quantity adjustment

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

- The fluid pressure: **greater pressure → more fluid quantity**

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

5 MAINTENANCE

5.1 General norms

The *electropneumatic valve SB*, 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 unchanged 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

5.2 Maintenance program

	TIMING*	WHAT TO DO
1	Every day, before the start production	<ul style="list-style-type: none"> • Do a valve test • Clean the valve externally
2	Every day, at the end of production	<ul style="list-style-type: none"> • Do a valve test • Clean the valve externally • Put some grease on the nozzle tip
3	Before a production break longer than two weeks	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • As point 3 and 4 • Replace 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 Zator company for any questions.

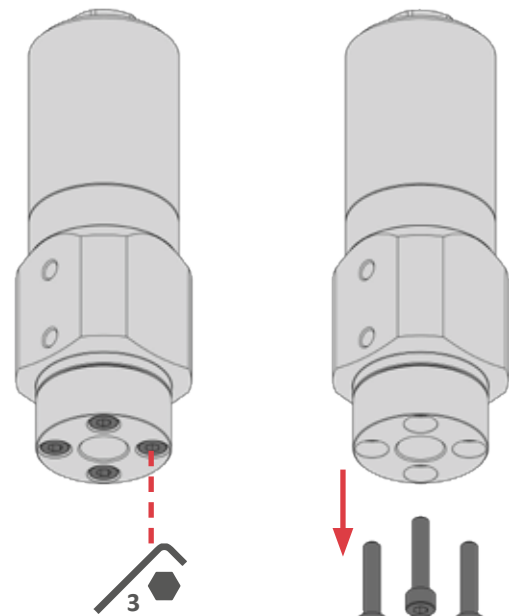
5.3 Valve disassembly

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

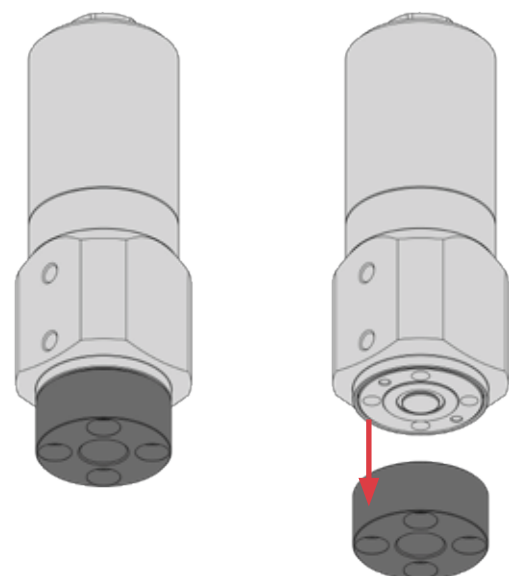
- Wash the valve with water
- **Discharge the pressure from the supply system**
- **Disconnect air connection**

Then proceed as follows:

- 1 Unscrew the *screw* with a 3mm hex key;

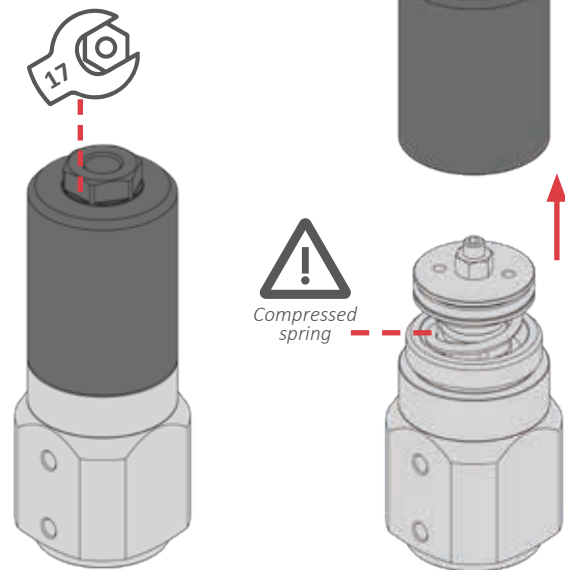


- 2 Remove the *flange*;

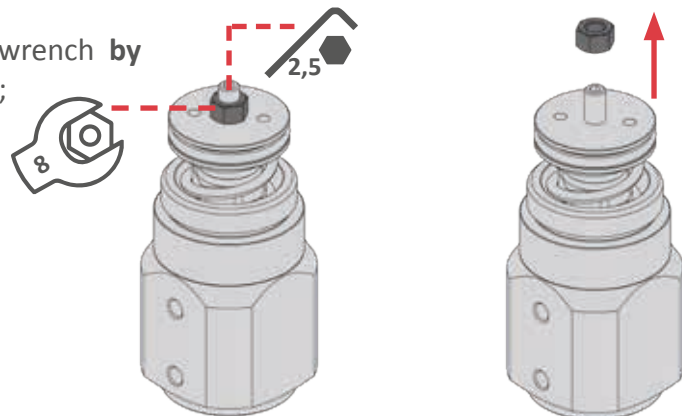




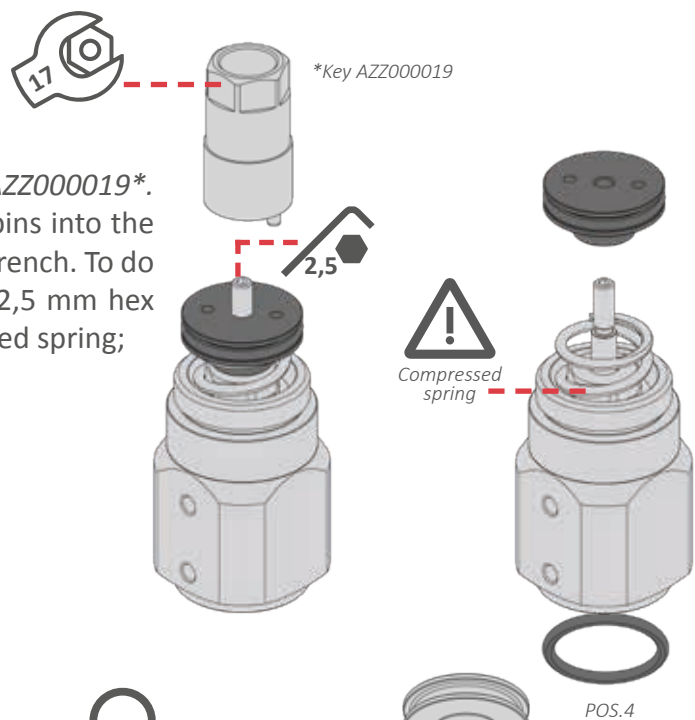
- 3 Unscrew the *upper part* with a 17mm wrench;



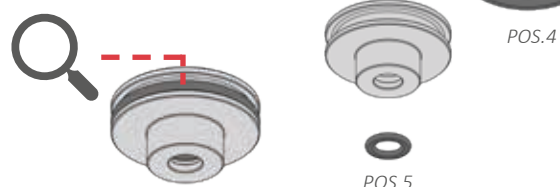
- 4 Unscrew the *locking nut* with a 8mm wrench **by holding** the *needle* with a 2,5mm hex key;



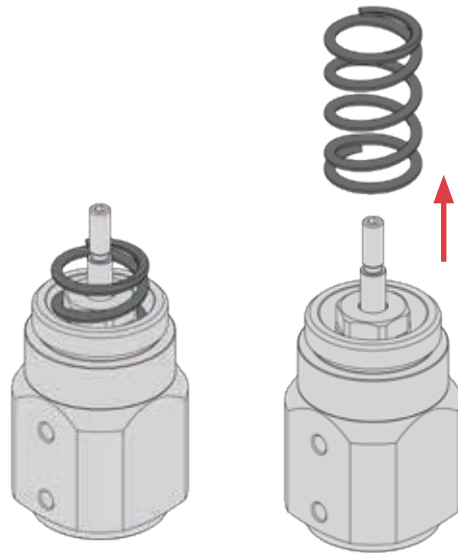
- 5 Unscrew the *piston* using the *special tool AZZ000019**. The key has to be used inserting the 2 pins into the proper holes and operate with 17 mm wrench. To do this operation block the *needle* with a 2,5 mm hex key, **being careful** of the inner compressed spring;



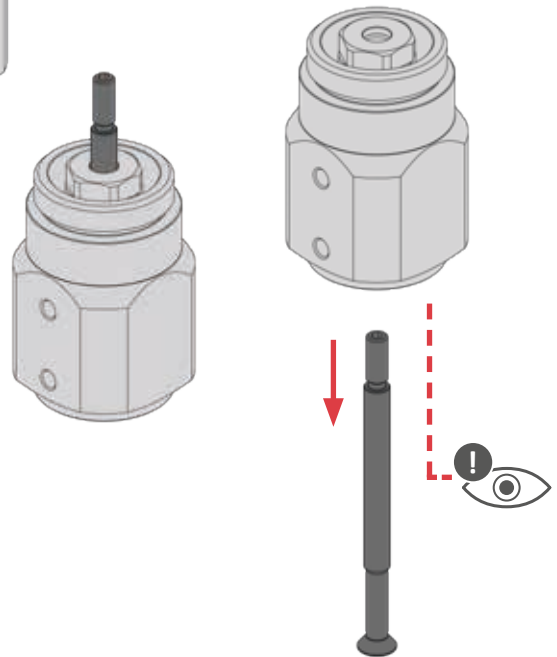
- 6 Remove the *O-ring* (POS. 4-5) from piston;



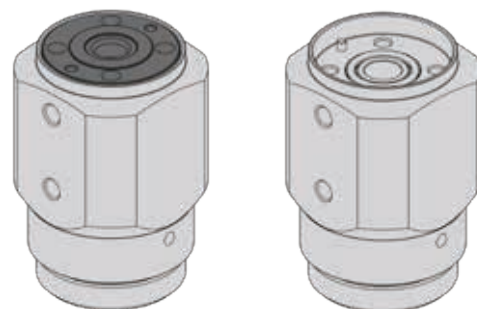
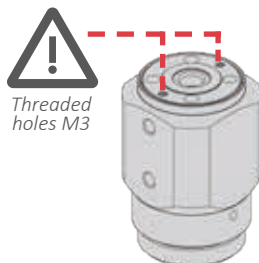
- 7 Extract the *spring*;



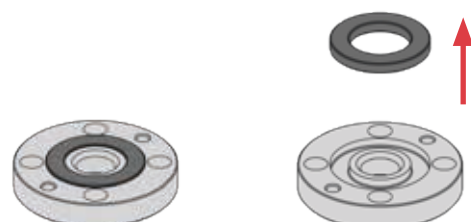
- 8 Slide the *needle* inside the body and pull it out from the front side.
Be careful not to drop the *seat*;



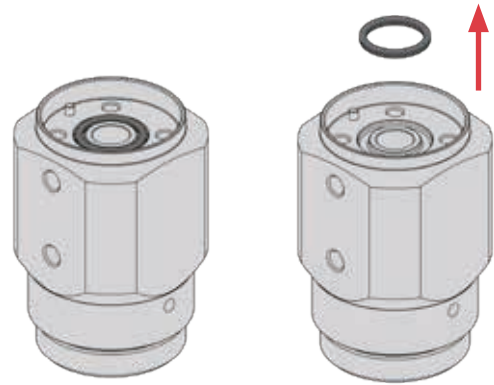
- 9 Remove the *seat*. If locked, use M3 screws of adequate length to be applied in the special threaded holes of the seat;



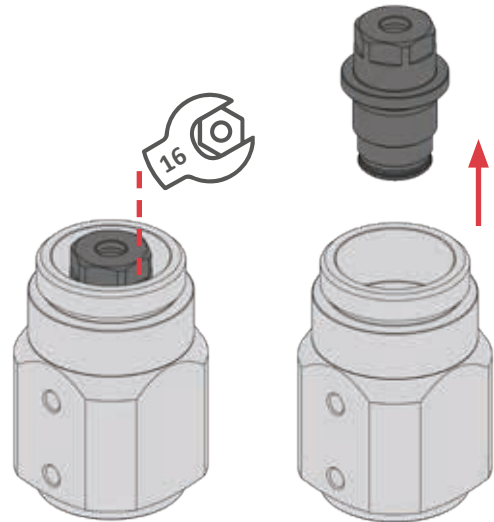
- 10 Remove the *gasket*, **being careful** not to damage its *seat*;



- 11 Remove the *O-ring*, **being careful** not to damage its seat;



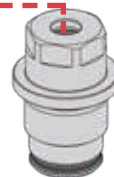
- 12 Remove the *lock bush* with 16mm wrench;



- 13 Check the wear of the *O-ring* (POS. 5-8-9) and of the gasket (POS. 10) on the lock bush and, if it is necessary, replace it. Always grease* the new O-rings before assembling them.



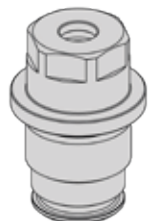
*Use silicon-based grease or oil specific for O-rings.
For any questions or information contact the Zator company.



POS.5



POS.8



POS.9



POS.10



5.4 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
- 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 Insert the *gasket* and the *O-ring* in lock bush. Always grease* the new O-rings before assembling them;

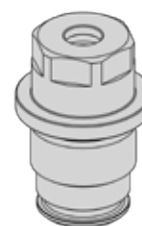
**Use silicon-based grease or oil specific for O-rings.
For any questions or information contact the Zator company.*



POS.5



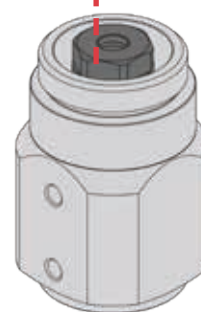
POS.8



POS.9

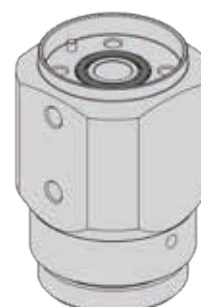
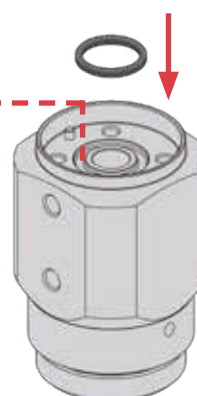
POS.10

- 2 Insert *lock bush* inside the valve body, then screw it with 16mm wrench;



- 3 Inject grease* into the *seat of the gasket*, so as to prevent the gaskets from falling, and then mount it;

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

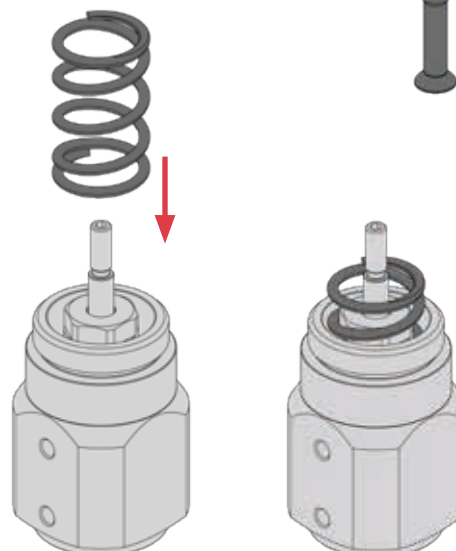
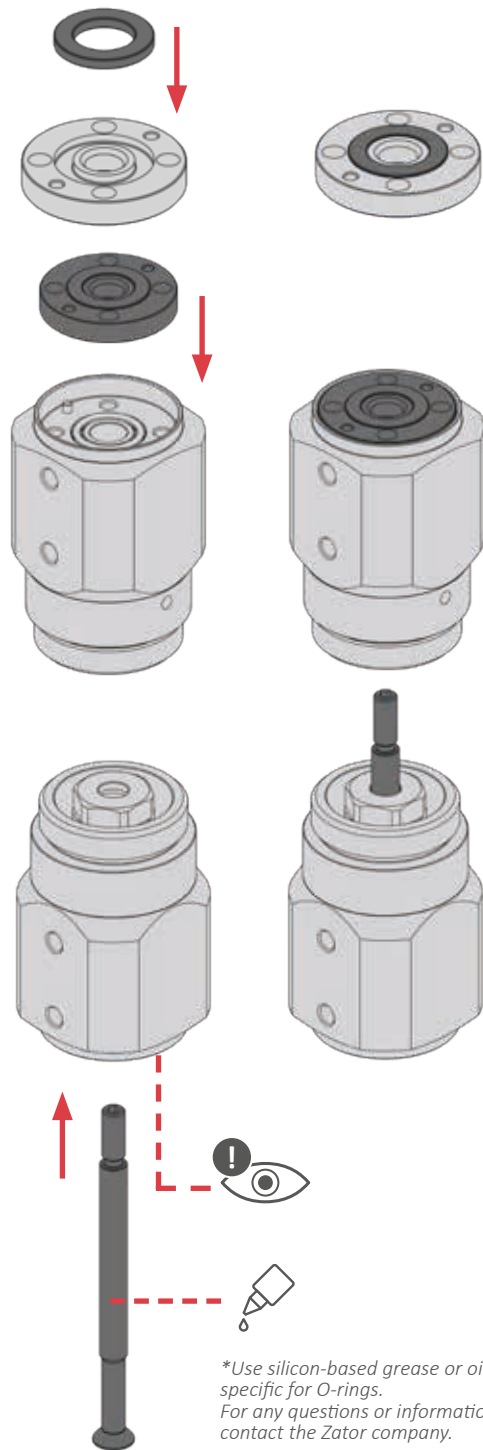


4 Insert the *gasket*;

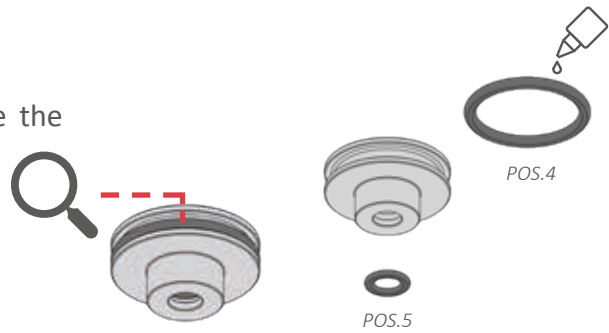
5 Fit the *seat* **being attention** to align the centering pins on the body with the holes of the seat;

6 Fit the *needle* **being careful** not to drop or rotate the *seat*. Before mounting, lubricate the needle;

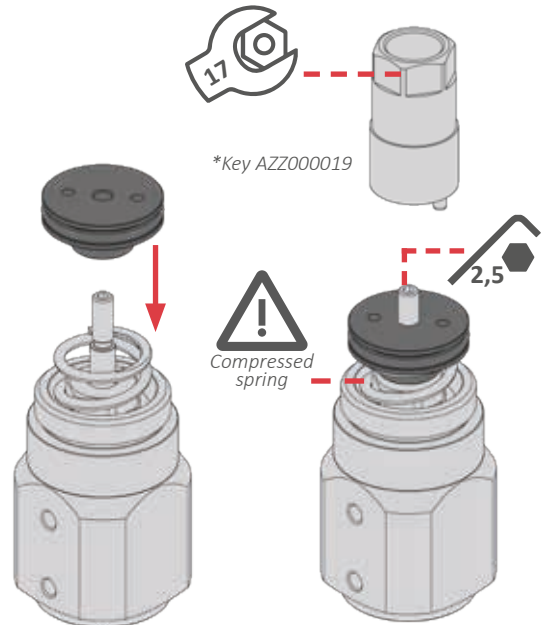
7 Insert the *spring*:



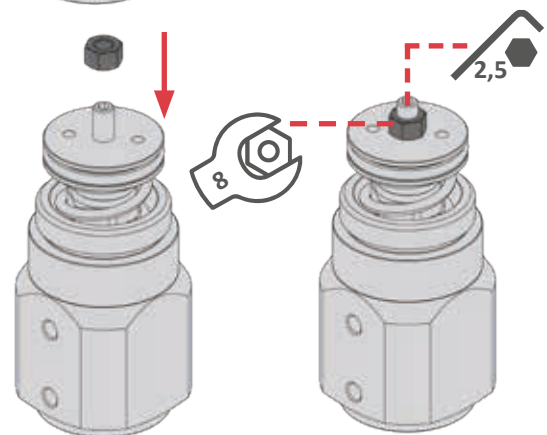
- 8 Insert the *O-ring* in the piston. Always grease the new O-rings before assembling them;



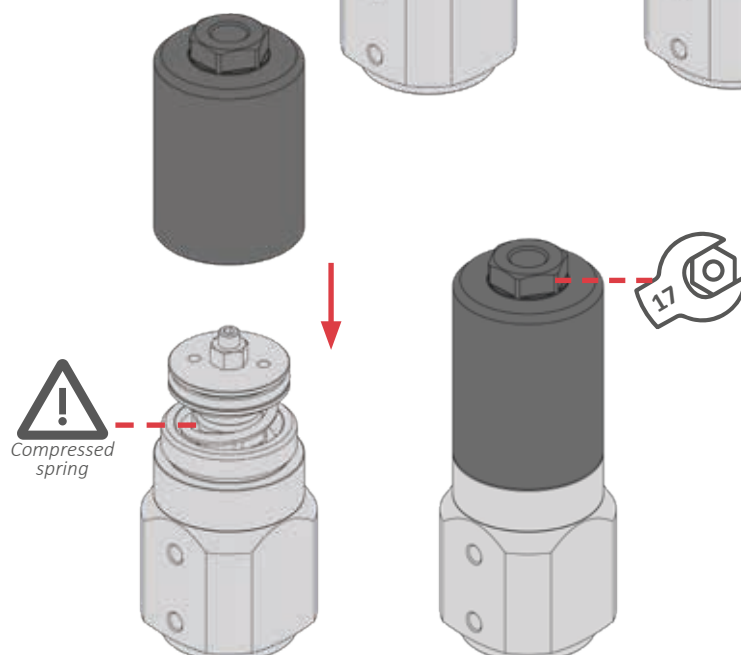
- 9 Screw the *piston* using the *special tool AZZ000019**. The key has to be used inserting the 2 pins into the proper holes and operate with 17 mm wrench. To do this operation block the *needle* with a 2,5 mm hex key, **being careful** of the inner compressed spring;



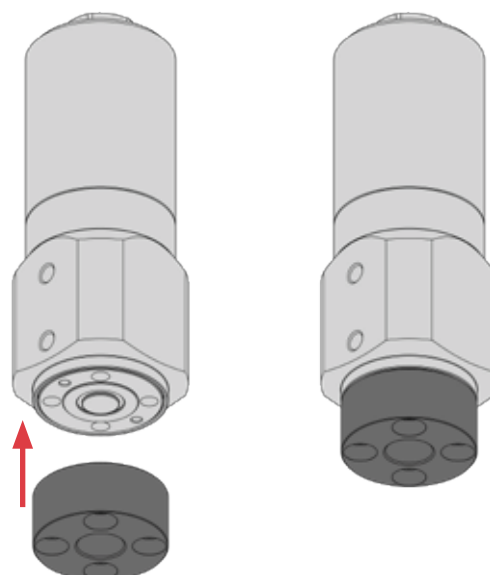
- 10 Screw the *locking nut* with a 8mm wrench **by holding** the *needle* with a 2,5mm hex key;



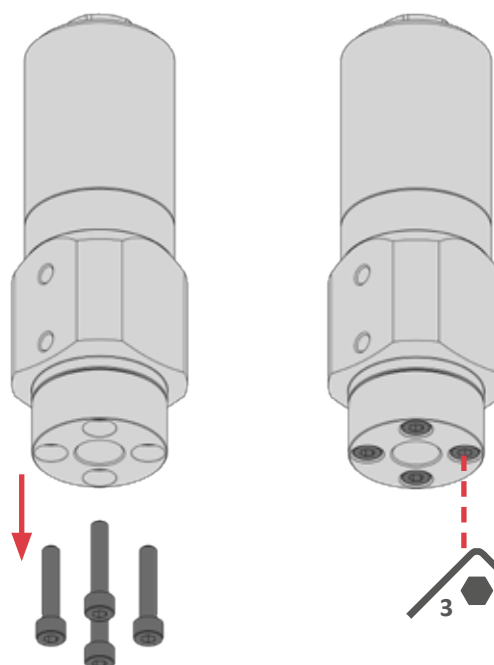
- 11 Screw the *upper part* with a 17mm wrench;



12 Assemble the *flange*;



13 Screw the *screw* with a 3mm hex key.



6 TROUBLE SHOOTING



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

TROUBLE	POSSIBLE CAUSE	WHAT TO DO
No or little quantity of dispensed fluid	The valve doesn't receive any signal	<ul style="list-style-type: none"> • Check the cables of the external solenoid valve; • Check the external solenoid valve command; • Make a manual test; • Check the functioning of the external solenoid valve.
	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
	No or weak drive pressure	Check the drive air pressure (5 bar)
	Residual glue into the system	Wash the complete system
Leak of fluid from the lock bush	O-ring or gasket inside the valve body is damaged	Replace the O-ring (POS. 5-8-9) or the gasket (POS. 10)
The valve is activated with a lag	No or weak drive pressure	Check the drive air pressure (5 bar)
	Piston O-ring is damaged	Replace the piston O-ring (POS.3)



7 MODELS

code	description	€
SB00B05000	Pneumatic snuff back valve	

code	description	€
SB00B05002	Pneumatic snuff back valve complete with flange	

code	description	€
SB02B05XXX	Pneumatic snuff back valve complete with flange and KV nozzle	

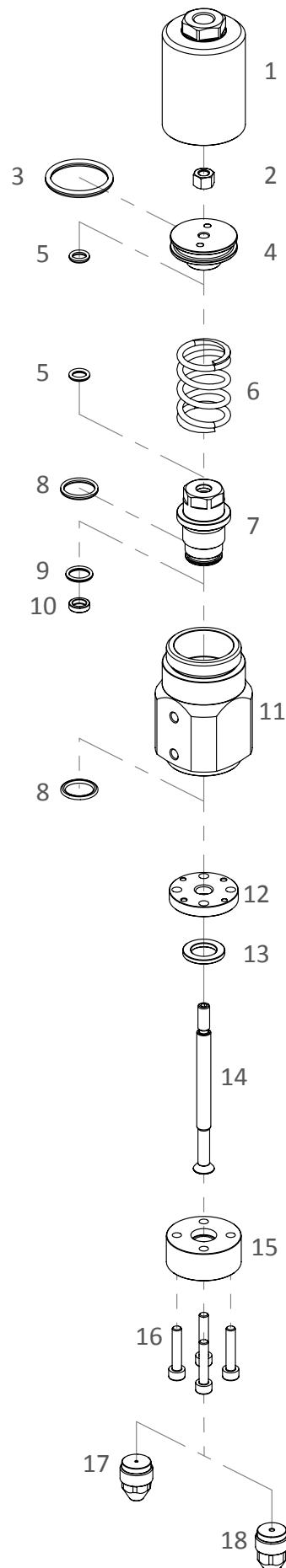
*Replace XXX value with nozzle diameter desired
Available nozzle diameters from 1,00 to 4,00 mm*





8 PARTS LIST

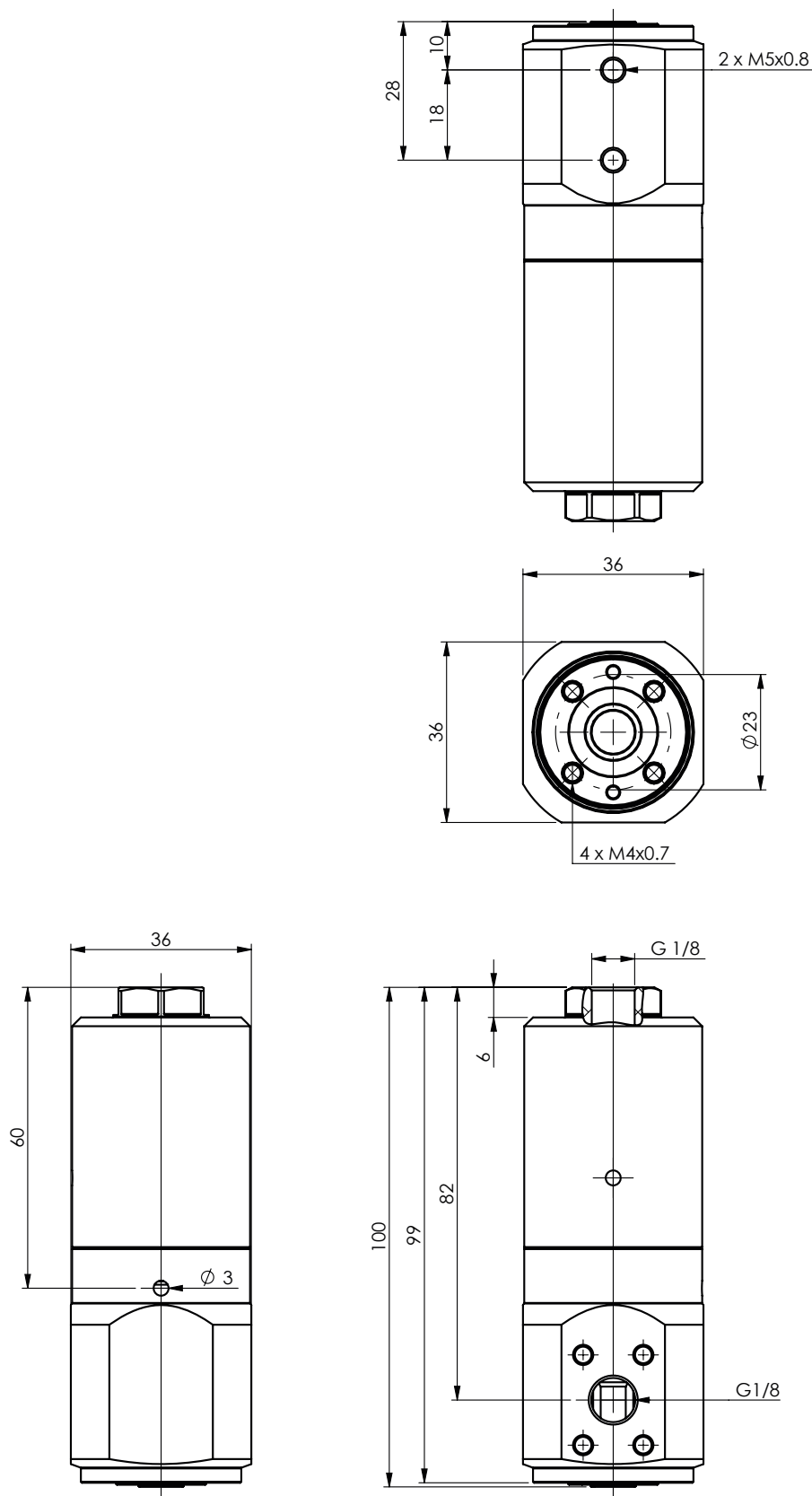
pos.	code	q.ty	description
1	BG000017	1	Upper body
2	NT1105010	1	Nut
3	RNG000119E	1	O-ring ¹
4	PST000011	1	Piston
5	RNG000010E	2	O-ring ¹
6	CCS000005	1	Spring
7	BSH000016	1	Lock bush
8	RNG000014E	2	O-ring ¹
9	RNG000011E	1	O-ring ¹
10	SHS40890T	1	Gasket ¹
11	BG000083	1	Valve body
12	SFG000005	1	Seat
13	SHS18110D	1	Gasket ¹
14	NST000041	1	Needle
15	LCN000005	1	Flange
16	SC00040201	4	Screw
17	NZLS0201XXX	1	Nozzle KV
18	NZLS0202XXX	1	Nozzle KV
<i>Replace XXX value with nozzle diameter desired Available nozzle diameters from 1,00 to 4,00 mm</i>			
	KGN000019	1	Gasket kit ¹



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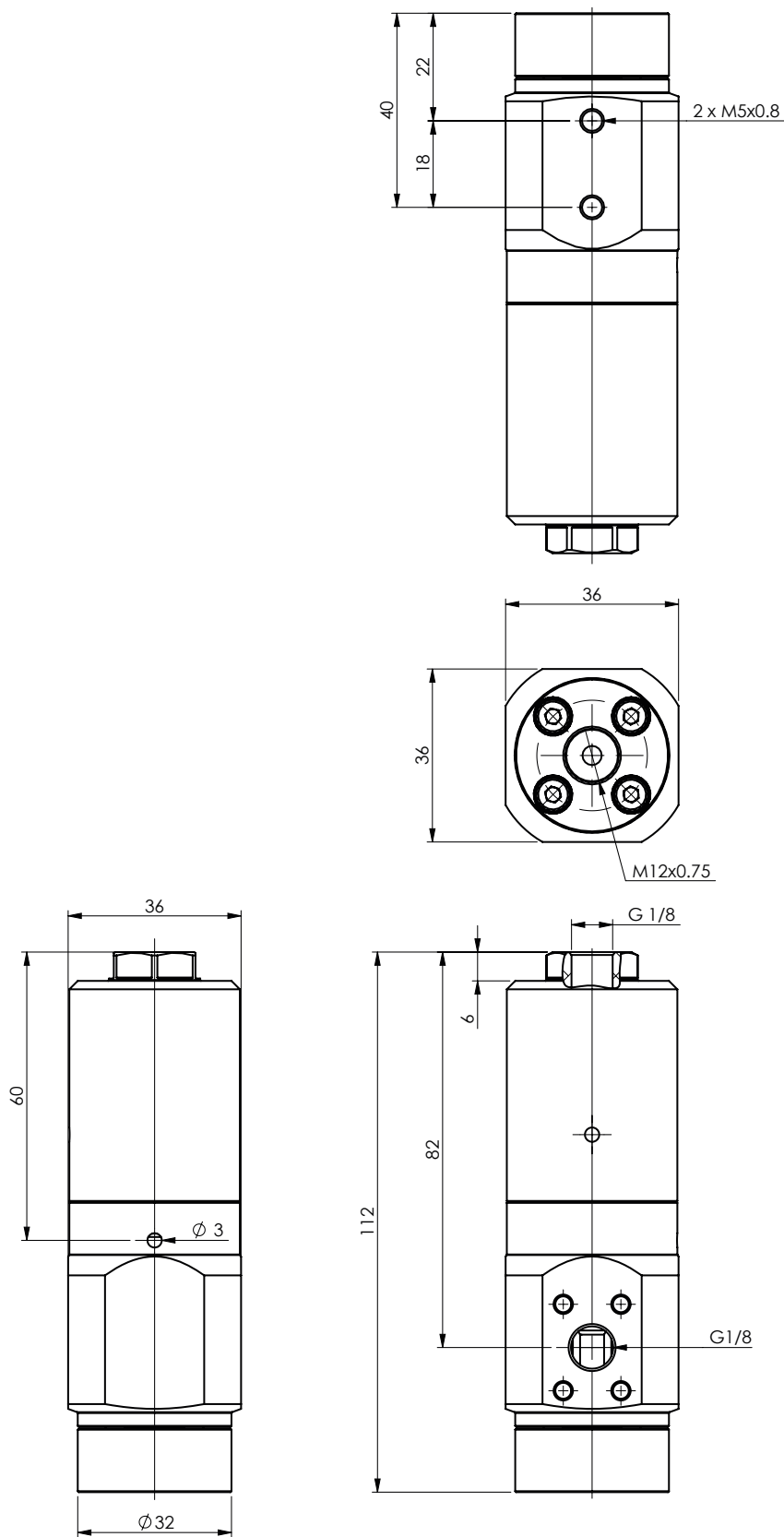
9 DIMENSIONS

SB00B05000

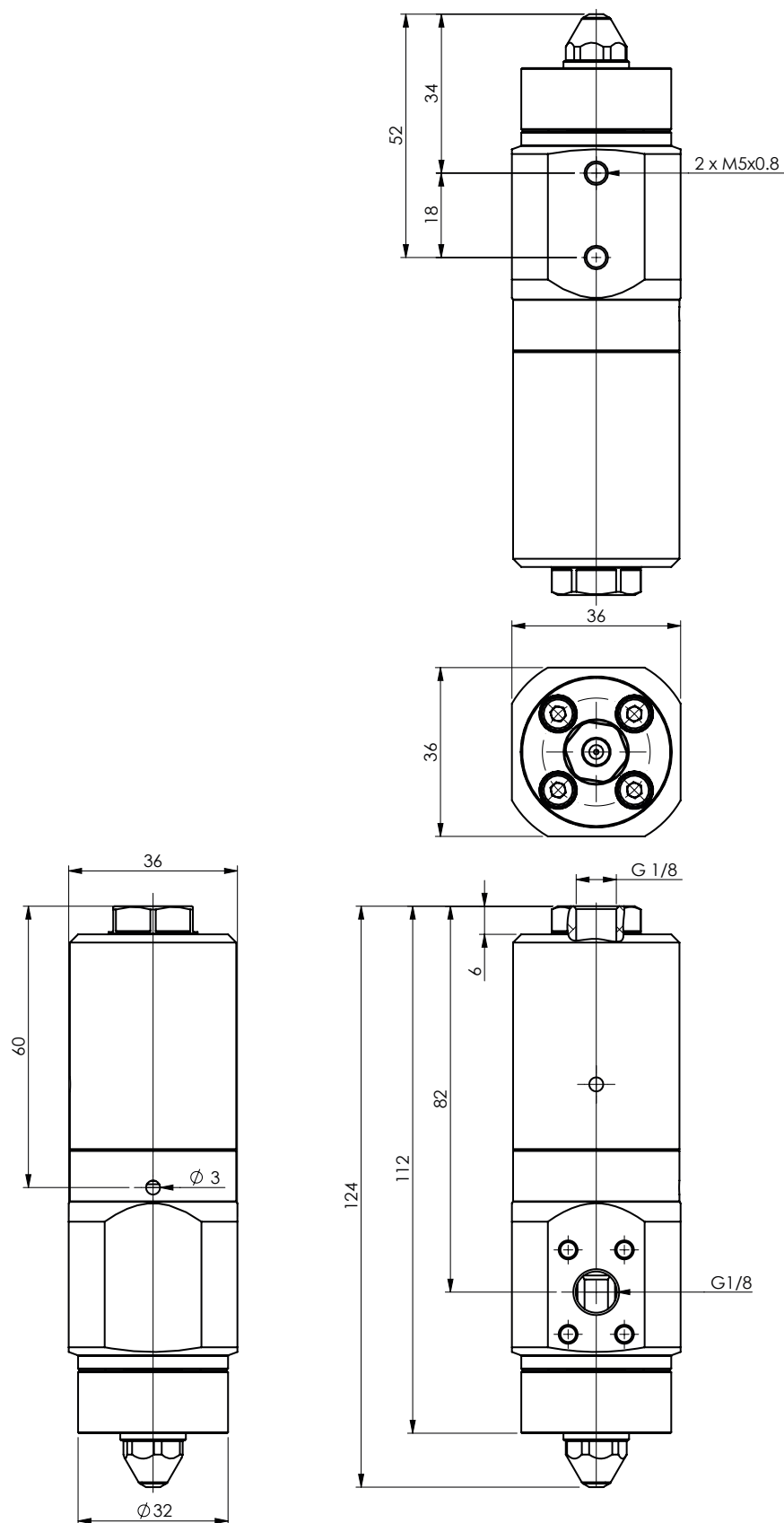




SB00B05002



SB02B05XXX



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