



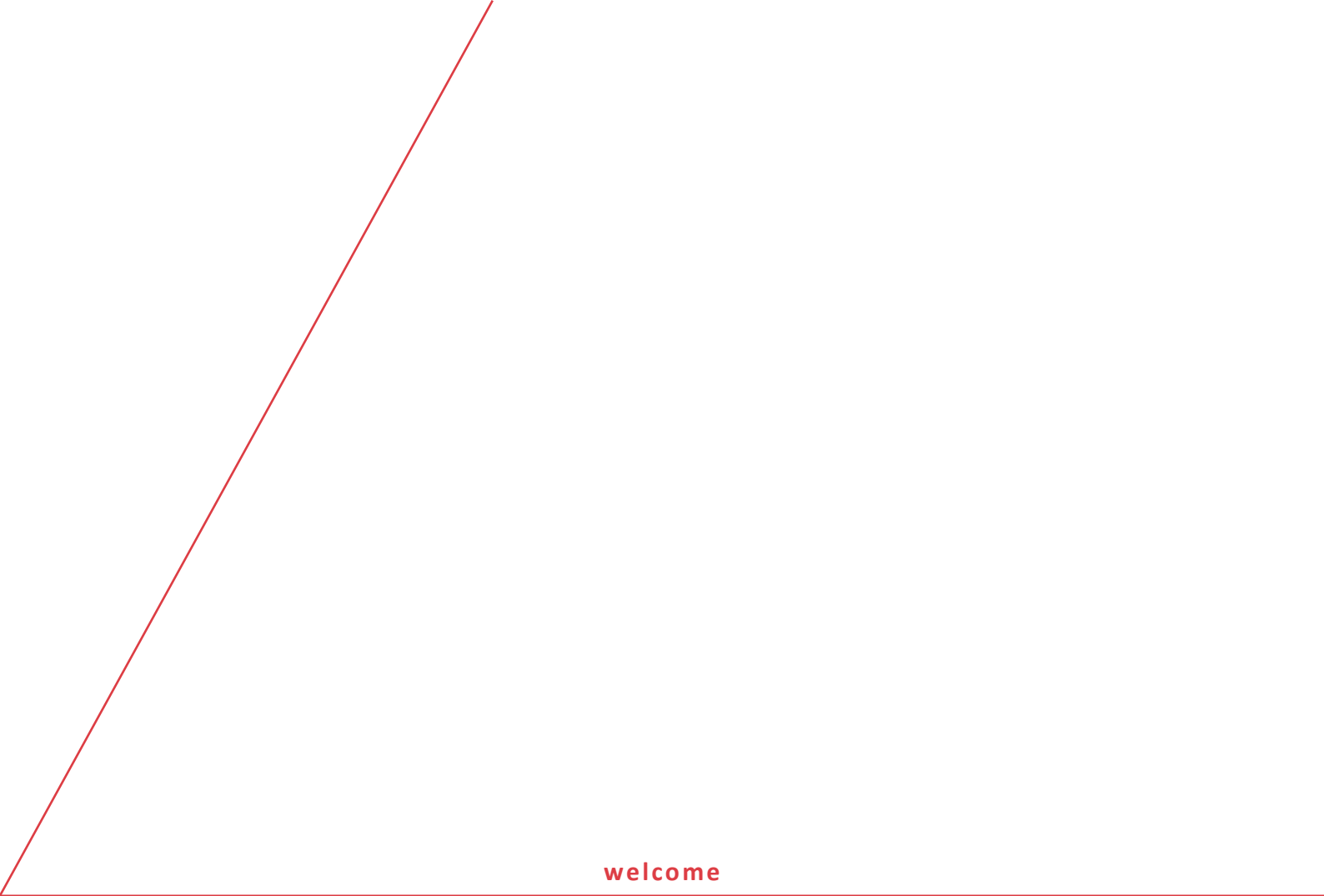
Zator  
gluing solutions



2024  
products catalog



ANNIVERSARY  
1998 - 2023



welcome



**ZATOR SRL**

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# ABOUT US

## 12.500

VALVES PRODUCED  
IN THE LAST 3 YEARS

## 199.400

PRODUCED ITEMS  
IN THE LAST 3 YEARS

CONSOLIDATED  
ANNUAL REVENUE  
GROWTH



## THE RIGHT SYSTEM FOR EVERY INDUSTRY

WE DESIGN AND MANUFACTURE  
NOT ONLY SYSTEMS, BUT  
COMPLETE SOLUTIONS IN-HOUSE:  
EACH SYSTEM IS EQUIPPED WITH  
POWER UNITS, CONTROLS, VALVES,  
SENSORS AND ADDITIONAL  
COMPONENTS.



## ITALIAN PASSION AT AN INTERNATIONAL LEVEL

OVER 25 YEARS OF EXPERIENCE IN THE  
DESIGN AND MANUFACTURE OF SYSTEMS FOR  
THE APPLICATION OF ADHESIVES, GLUE AND  
FLUIDS SERVING SECTORS SUCH AS PAPER  
CONVERTING, AUTOMOTIVE, WOOD/FURNITURE,  
TOBACCO AND FOOD.

Controlled and flexible production for fast and  
customized solutions: from material selection to  
delivery, we manage the entire production process  
internally with real-time control of all products.

Our fleet of CNC machine tools allows us to  
manufacture both standard products and customized  
solutions based on your needs.

Our flexibility and company size allow us to guarantee  
the best tailor-made solutions in a short time.



# QUALITY AS A CORPORATE VALUE

AT ZATOR, WE NEVER SETTLE FOR MEDIOCRITY. WE STRIVE FOR EXCELLENCE IN EVERY PHASE OF THE PRODUCTION PROCESS: EVERY TEAM MEMBER IS AWARE OF THE IMPORTANCE OF QUALITY AND IS DEEPLY COMMITTED TO ENSURING IT IS MET.

From carefully selected raw materials to rigorously tested components and state-of-the-art machinery, everything is designed to achieve the highest quality products. Each project and collaboration is an opportunity to refine and improve. We leave nothing to chance: our rigorous quality controls ensure that every component is perfect before it is assembled. For us, quality is an investment in the future, and one that we are not willing to sacrifice.

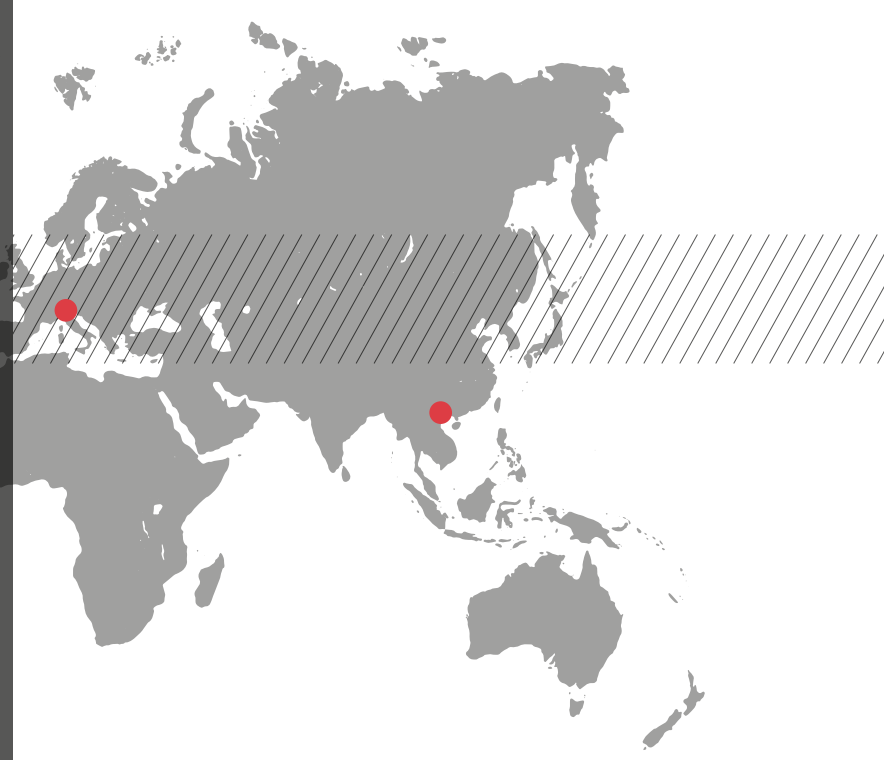






**WITH YOU,  
FROM START  
TO FINISH**

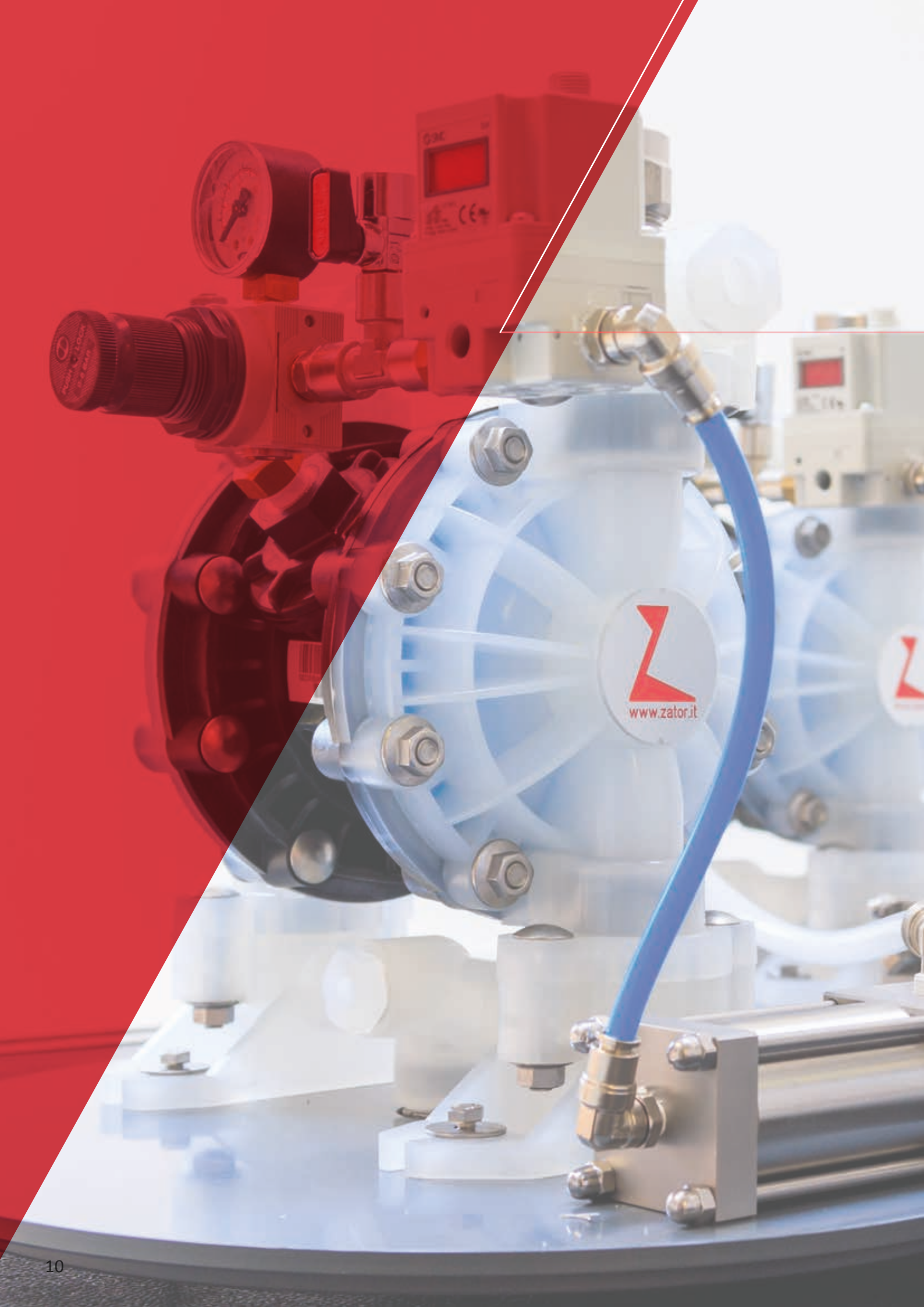
OUR COLLABORATION DOES NOT END WITH THE DELIVERY OF THE PROJECT. WE OFFER A COMPLETE SERVICE, WITH MAXIMUM AVAILABILITY BEFORE AND AFTER SALES. OUR EXPERT AND COMPETENT TECHNICIANS ARE AT YOUR DISPOSAL FOR ANY NEED, GUARANTEEING YOU INTERNATIONAL LEVEL SUPPORT.



We can reach you anywhere:  
from Europe to Oceania,  
from the Americas to Asia.  
We also have a strong presence in  
China, thanks to the **Guangzhou**  
branch operating since 2016.

## ITALIAN EXCELLENCE, SERVING THE WORLD

FROM ITALY TO THE WORLD,  
WE BRING OUR PASSION FOR  
INNOVATION AND QUALITY.  
OUR TECHNICAL AND  
COMMERCIAL NETWORK ALLOWS  
US TO BE PRESENT ALL OVER THE  
WORLD, OFFERING A TIMELY AND  
PERSONALIZED ASSISTANCE AND  
SUPPORT SERVICE.  
(AGENTS, DISTRIBUTORS,  
COMMERCIAL COMPANIES)



# 1

## GLUE FEED UNITS

### diaphragm pump

The glue feed units with diaphragm pump are indicated to supply low viscosity glues, adhesives and fluids.

They are equipped with a double diaphragm pneumatic pump 1:1 ratio and an anti-stall control valve.

The pump is assembled on an easily removable plastic bucket lid that simplifies the empty bucket change, in the same way the pump can be moved on a water filled bucket for a complete implant washing cycle.

The pump is equipped with a bottom valve that prevent fluid loss during the maintenance/ bucket change operations.

The glue feed units are equipped with a stainless filter placed in the intake pump tube, this will prevent the aspiration of glue lumps; a second, fine mesh filter, is equipped in some versions, the second filter will act as a dampener for the pump pulsation, and filter the fluid even more.

To manually control the pressure output, a 1:1 ratio manual pressure regulator can be installed, alternatively, for an automated system a 1:1 automatic pressure regulator, controlled by a proportional valve is available.

To indicate the bucket minimum level, a float level sensor can be installed.

#### APPLICATION FIELDS

packaging
paper converting
case maker
printing machine
tobacco industry
assembly
cosmetics

#### FLUID TYPES

adhesives and glues
inks
paints
mastics
low viscosity fluids



## A158001

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe with filter and bottom valve, 1:1 manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid. Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

### technical data

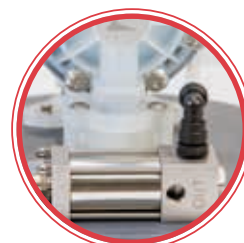
Pump ratio	1:1
Line air supply	max 6 bar
Working pressure	from 1 to 6 bar
Weight (tare)	10 Kg
Bucket capacity	28 liters

### description

Diaphragm pump feed unit: double diaphragm polypropylene pump, polypropylene seats, santoprene diaphragms and spheres. Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and manual stainless steel pressure regulator.



Stainless steel filter  
with interchangeable cartridge



Manual stainless steel  
pressure regulator



Float level sensor kit

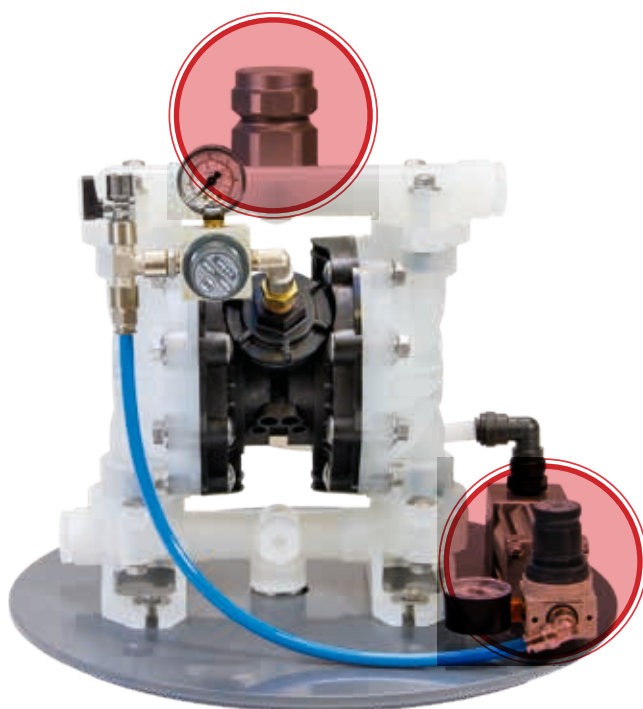


Available  
optionals

Stand



Bottom valve  
with filter



Double diaphragm



# A159002

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe with filter and bottom valve, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid, 1:1 automatic stainless steel pressure regulator, proportional valve for automatic control of fluid flow.

Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

## technical data

Pump ratio	1:1
Line air supply	max 6 bar
Proportional valve	0 - 20 mA
Working pressure	from 1 to 6 bar
Weight (tare)	11 Kg
Bucket capacity	28 liters

## description

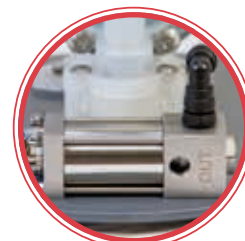
Diaphragm pump feed unit: double diaphragm polypropylene pump, polypropylene seats, santoprene diaphragms and balls. Bucket with lid, suction pipe with filter, bottom valve, proportional valve, stainless steel filter/pulsation dampener and automatic stainless steel pressure regulator.



*Stainless steel filter with interchangeable cartridge*



*Proportional valve*



*Automatic stainless steel pressure regulator*



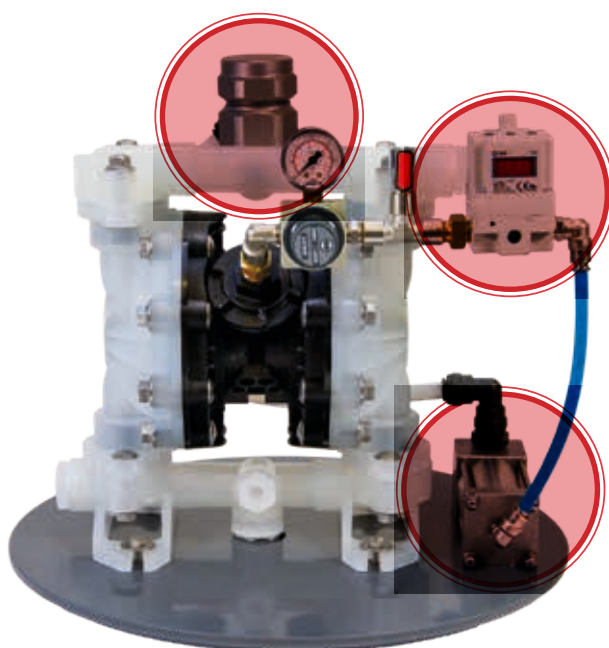
*Float level sensor kit*



*Stand*



*Bottom valve with filter*



*Double diaphragm*

Available  
optionals



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## piston pump

The glue feed units are indicated to supply medium viscosity glues, adhesives and fluids; they are equipped with a fully pneumatic piston pump up to 10:1 ratio.

The pump can be installed directly on board the machine, wall mounted or on a stand with wheels.

The bucket is connected to the pump via a flexible reinforced tube, the bucket refill and inspection, is facilitated by a hinged flap door on the bucket lid.

The pump is equipped with a bottom valve that prevent fluid loss during the maintenance/ bucket change operations.

The glue feed units are equipped with a stainless filter placed in the intake pump tube, this will prevent the aspiration of glue lumps; a second, fine mesh filter, is equipped in some versions, the second filter will act as a dampener for the pump pulsation, and filter the fluid even more.

To manually control the pressure output, a 1:1 ratio manual pressure regulator can be installed, alternatively, for an automated system a 1:1 automatic pressure regulator, controlled by a proportional valve is available.

To indicate the bucket minimum level, a sensor can be installed.

### APPLICATION FIELDS

packaging
paper converting
case maker
printing machine
tobacco industry
assembly
cosmetics

### FLUID TYPES

adhesives and glues
greases
paints
mastics
medium viscosity fluids

# GFUP02010

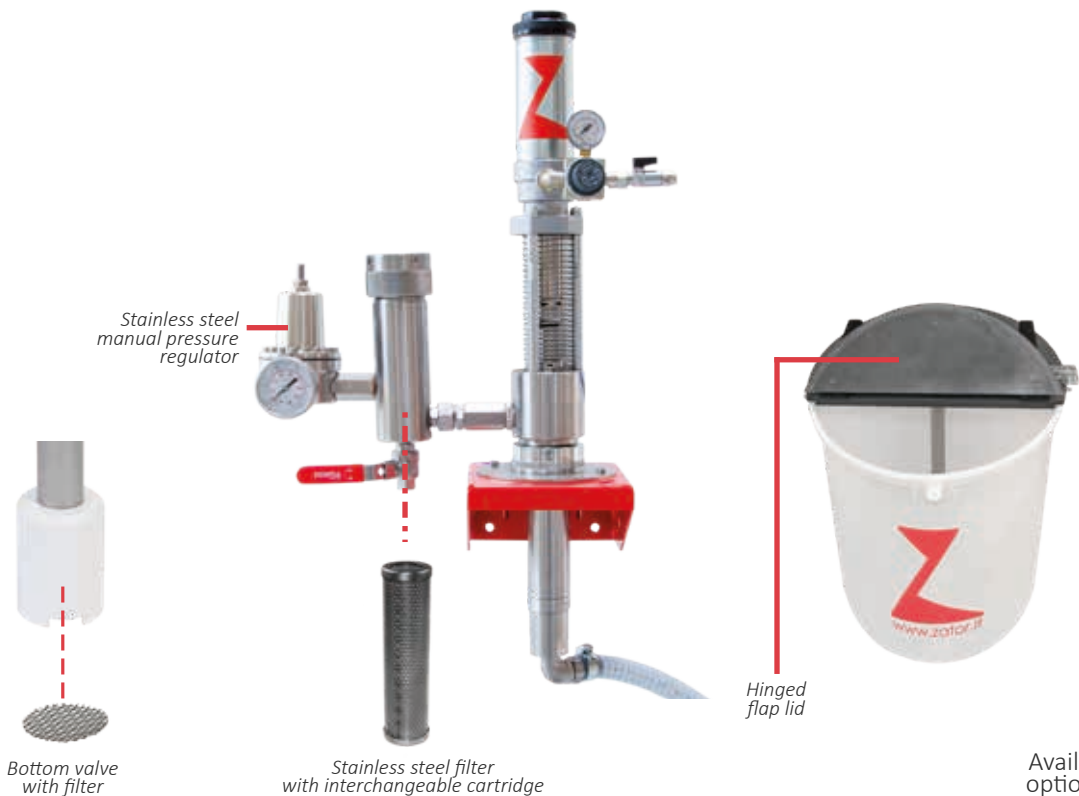
Glue feed unit with pneumatic piston pump 2:1 ratio equipped with: suction pipe with filter and bottom valve, manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid. Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

## technical data

Pump ratio	2:1
Line air supply	max 6 bar
Working pressure	from 1 to 12 bar
Weight (tare)	21 Kg
Bucket capacity	28 liters

## description

Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 2:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and manual stainless steel pressure regulator.



Float level sensor kit



Wall mount bracket



Stand

Available  
optionals



# GFUP02011

Glue feed unit with pneumatic piston pump 2:1 ratio equipped with: suction pipe with filter and bottom valve, 3:1 ratio automatic stainless steel pressure regulator, proportional valve for automatic control of fluid flow, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

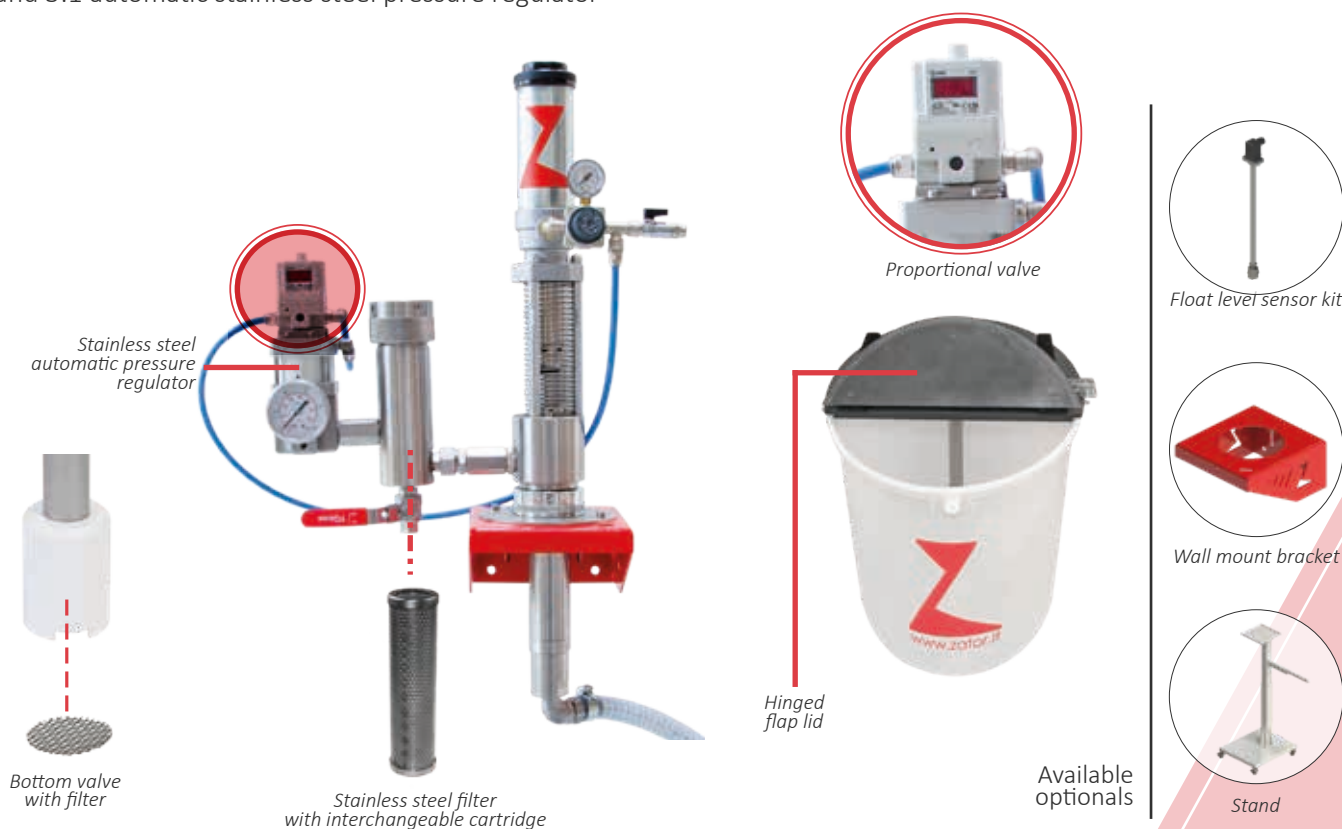
Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

## technical data

Pump ratio	2:1
Line air supply	max 6 bar
Proportional valve	0 - 20 mA
Working pressure	from 1 to 12 bar
Weight (tare)	23 Kg
Bucket capacity	28 liters

## description

Glue feed unit with piston pump, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 2:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, proportional valve, stainless steel filter/pulsation dampener and 3:1 automatic stainless steel pressure regulator



Available  
optionals

## A169001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

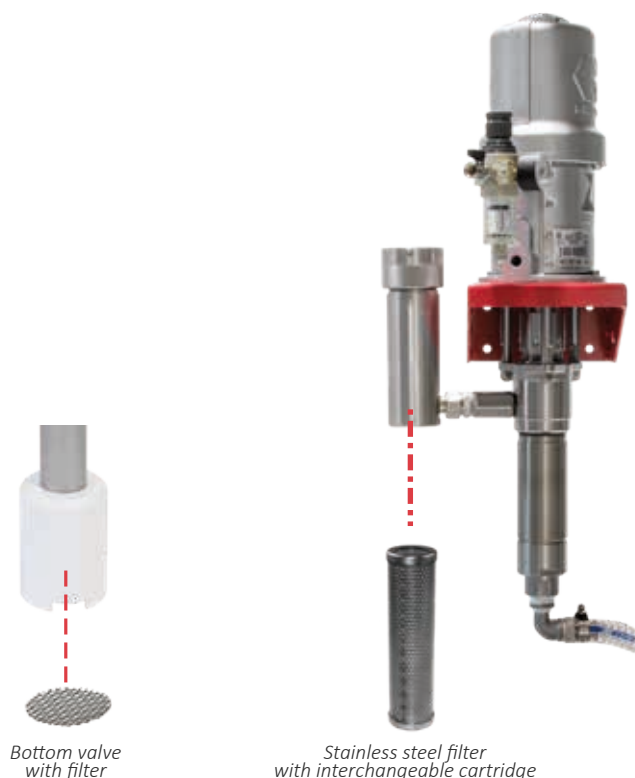
Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

### technical data

Pump ratio	5:1
Line air supply	max 6 bar
Working pressure	from 1 to 30 bar
Weight (tare)	20 Kg
Bucket capacity	28 liters

### description

Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve and stainless steel filter/pulsation dampener.



Float level sensor kit



Wall mount bracket



Stand

Available  
optionals

# A170001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

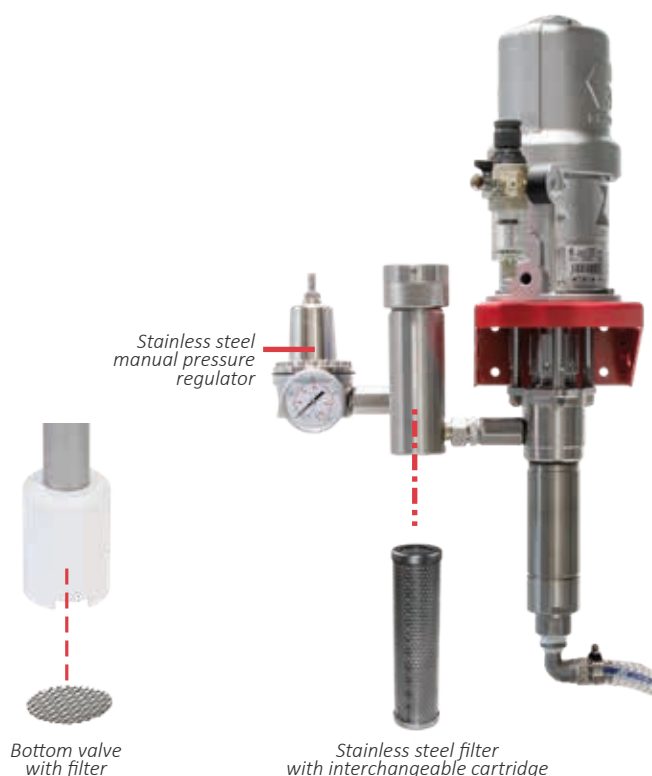
Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

## technical data

Pump ratio	5:1
Line air supply	max 6 bar
Working pressure	from 1 to 30 bar
Weight (tare)	23 Kg
Bucket capacity	28 liters

## description

Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and manual stainless steel pressure regulator.



Float level sensor kit



Wall mount bracket



Stand

Available  
optionals

# A190001

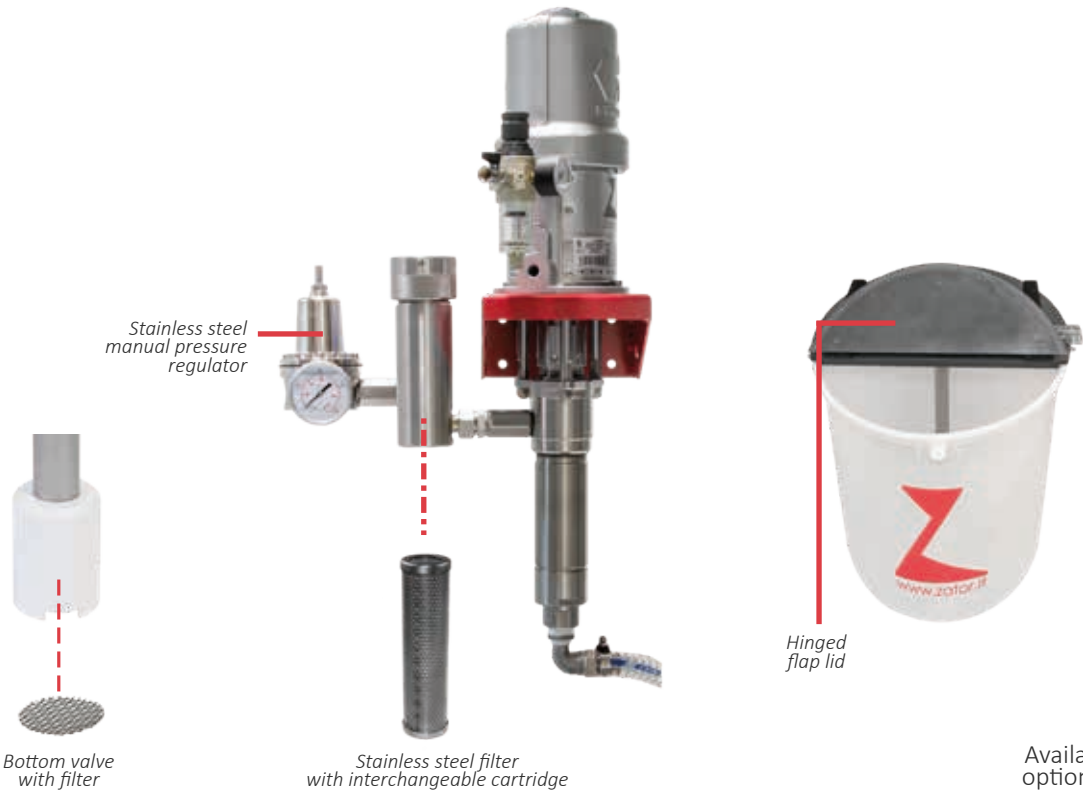
Glue feed unit with pneumatic piston pump 10:1 ratio equipped with: suction pipe with filter and bottom valve, manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid. Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

## technical data

Pump ratio	10:1
Line air supply	max 6 bar
Working pressure	from 1 to 60 bar
Weight (tare)	28 Kg
Bucket capacity	28 liters

## description

Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional).  
Stainless steel piston pump 10:1 ratio.  
Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and manual stainless steel pressure regulator.



Float level sensor kit



Wall mount bracket



Stand

Available  
optionals



## A171001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, 5:1 ratio automatic stainless steel pressure regulator, proportional valve for automatic control of fluid flow, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

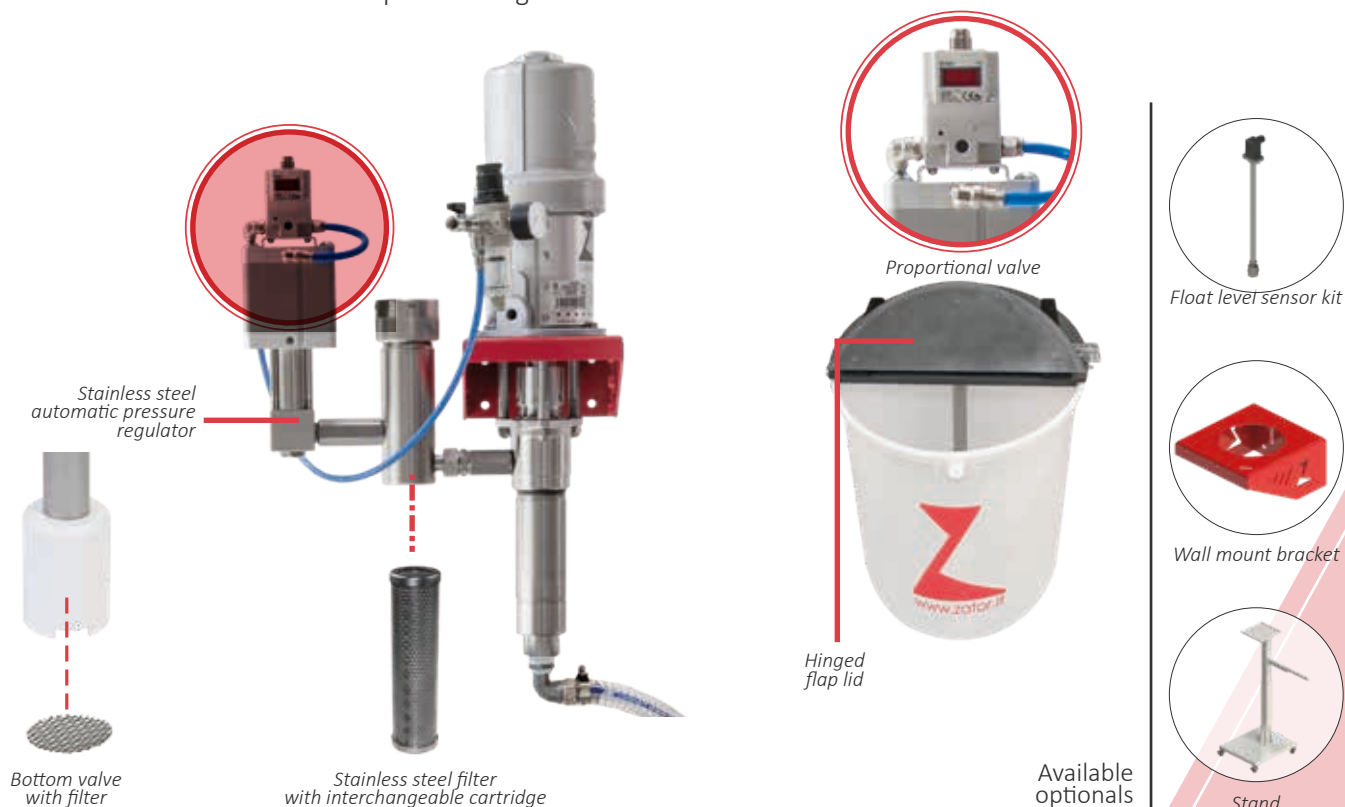
Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

### technical data

Pump ratio	5:1
Line air supply	max 6 bar
Proportional valve	0 - 20 mA
Working pressure	from 1 to 30 bar
Weight (tare)	25 Kg
Bucket capacity	28 liters

### description

Glue feed unit with piston pump, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, proportional valve, stainless steel filter/pulsation dampener and 5:1 automatic stainless steel pressure regulator



Available  
optionals

Stand



[www.zator.it](http://www.zator.it)

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## light - LDG - MDG pressure tank

Light pressure tanks are indicated for the use with low viscosity glues, adhesives and fluids, fully made in stainless steel, the tanks can be easily refilled through a wide opening on top, the airtight cap can be manually removed.

The tanks maximum working pressure is 3 bar, 9 or 18 liters capacity, a fine mesh stainless steel filter can be installed in the fluid output, to filter any impurity that may be present in the fluid.

The LDG and MDG pressure tanks are entirely stainless steel made with a maximum working pressure of 6 bar, their capacity ranges from 1 liter and up to 42,5 liters.

The tanks are equipped with a pressure regulator with manometer, sphere valves in both inlet and outlet and a safety valve; the lid is fully removable, allowing an easier inspection/tank refill.

The tanks can be equipped with a fine mesh stainless steel filter in the output, to filter any impurity that may be present in the fluid. All models are CE certified.

### APPLICATION FIELDS

packaging
paper converting
case maker
wood industry
assembly

### FLUID TYPES

adhesives and glues
inks
paints
low viscosity fluids

### OPTIONALS

fluid filter
fluid level sensor
heating jacket
agitator

## 9 LITERS

code	description
------	-------------

A12900300 Stainless steel pressure tank- Light version  
9 liters- 3 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves- Safety valve

code	description
------	-------------

A12906300 Stainless steel pressure tank- Light version  
9 liters- 3 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves  
Safety valve- Stainless steel filter

code	description
------	-------------

A12906500 Stainless steel pressure tank- Light version  
9 liters- 3 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves- Safety valve  
Stainless steel filter- Level control



## 18 LITERS

code	description
------	-------------

A12900100 Stainless steel pressure tank- Light version  
18 liters- 3 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves- Safety valve

code	description
------	-------------

A12906100 Stainless steel pressure tank- Light version  
18 liters- 3 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves  
Safety valve- Stainless steel filter

code	description
------	-------------

A12907100 Stainless steel pressure tank- Light version  
9 liters- 18 bar max pressure  
Air pressure regulator with manometer  
Inlet/outlet ball valves- Safety valve  
Stainless steel filter- Level control



## LDG



code	description
V4405160013	Stainless steel pressure tank LDG5 version 3,5 liters- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate
V4410160013	Stainless steel pressure tank LDG10 version 9 liters- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate
V4420160013	Stainless steel pressure tank LDG20 version 15 liters- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate

## MDG



code	description
V4012160013	Stainless steel pressure tank MDG1 version 1 liter- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate
V4432160013	Stainless steel pressure tank MDG22 version 19,5 liters- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate
V4424160013	Stainless steel pressure tank MDG45 version 42,5 liters- 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve - CE certificate

### available optionals



Float level sensor kit



Y Filter





# CONTROLS

## LMZ microprocessor control

The LMZ microprocessor controls are designed and manufactured to be used on a wide array of high speed machines; their versatility makes them suitable for any application that require glue valves or elettropneumatic valves control in general. The controls can store up to 99 different programs and manage up to 96 valves (channels) independently, each of them capable to perform four or eight different glue lines.

The valves can work in line or dots mode, a programmable function allow to automatically switch from dots to line at a pre-programmed speed.

The control has been designed to work in two different modes:

- Encoder mode: used in pair with an encoder, in machines that runs in variable speeds
- Timer mode: used in machines that runs at constant speed

### APPLICATION FIELDS

packaging
paper converting
case maker
printing machine
tobacco and wood industry
assembly
other

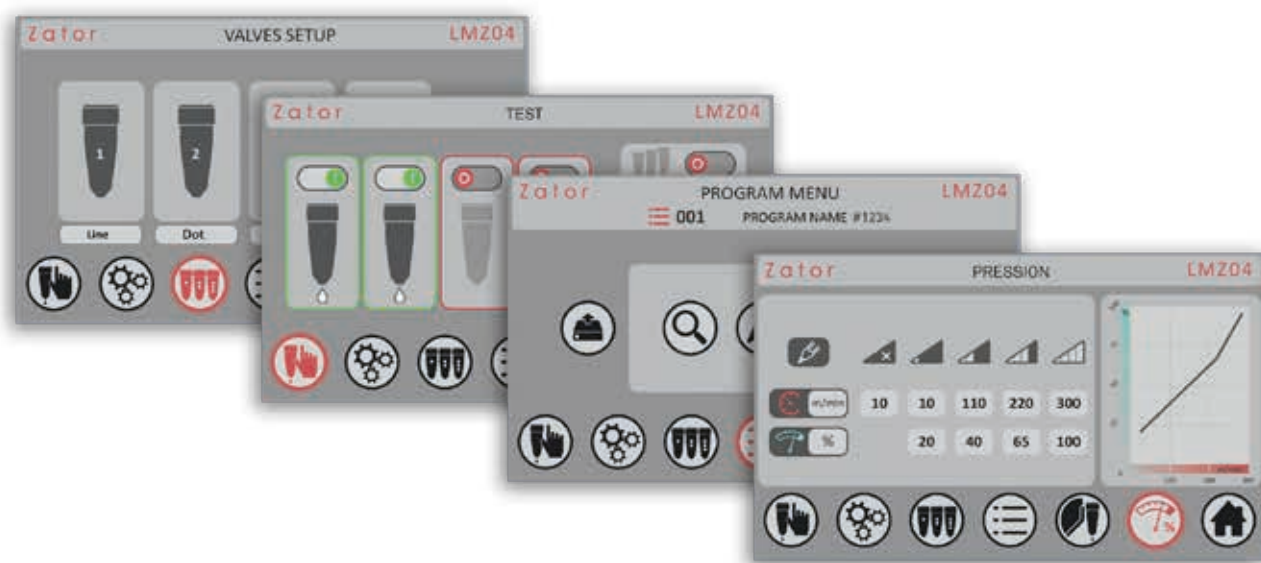
### WORKING MODELS

encoder
timer

### PROGRAMMABLE VERSIONS

packaging
collator

## FEATURES



more simple. more intuitive.

The design of the graphic interface lets to the user to speed and simplify the learning of the basic functions of the instrument.



LMZ02 & LMZ04 7" version



LMZ08 10" version

### touch screen panel

You won't need any other devices to operate on the instrument. Just use your fingers.

### multi-languages text

Select your desired language and start programming.





## 3D view programming menu

You can keep an eye on all the glue patterns data, simplifying the reading and preventing possible mistakes during the programming.



## integrable wi-fi router connection

Connect with wi-fi your mobile devices\* like smartphone or tablet to the control to remotely control in real time the production and make any corrections to the program.

*\*Available for Android and iOS devices.*



code	description
------	-------------

- |       |  |
|-------|--|
| LMZ02 | <ul style="list-style-type: none"> <li>• Programmable configuration in packaging or collator version</li> <li>• 99 programs stored</li> <li>• Application precision <math>\pm 1</math> mm @ 700 m/min</li> <li>• Working models: encoder or timer mode</li> <li>• 7" Touch screen panel TFT- 800X480</li> <li>• Power supply 220 Volt, 50 Hz</li> <li>• Software included</li> </ul> |
|-------|--|

Inputs:

- 2 photocells, 1 encoder
- 1 glue reset, 1 glue level sensor

Outputs:

- 2 independent channels (valve)
- 1 nozzle shutter
- 1 proportional valve control (0-20 mA)
- 1 level glue output
- 2 optional free output



code	description
------	-------------

- |       |  |
|-------|--|
| LMZ04 | <ul style="list-style-type: none"> <li>• Programmable configuration in packaging or collator version</li> <li>• 99 programs stored</li> <li>• Application precision <math>\pm 1</math> mm @ 700 m/min</li> <li>• Working models: encoder or timer mode</li> <li>• 7" Touch screen panel TFT- 800X480</li> <li>• Power supply 220 Volt, 50 Hz</li> <li>• Software included</li> </ul> |
|-------|--|

Inputs:

- 4 photocells, 1 encoder
- 1 glue reset, 1 glue level sensor

Outputs:

- 4 independent channels (valve)
- 1 nozzle shutter
- 1 proportional valve control (0-20 mA)
- 1 level glue output
- 2 optional free output



code	description
------	-------------

- |       |   |
|-------|---|
| MCZ02 | <ul style="list-style-type: none"> <li>• Programmable configuration for can lids</li> <li>• Application precision <math>\pm 1</math> mm @ 700 m/min</li> <li>• Working models: timer mode</li> <li>• 7" Touch screen panel TFT- 800X480</li> <li>• Power supply 220 Volt, 50 Hz</li> <li>• Software included</li> </ul> |
|-------|---|

## Inputs:

- 2 proximity switch
- 1 glue reset, 1 glue level sensor

## Outputs:

- 2 independent channels (valve)
- 1 nozzle shutter
- 1 level glue output
- 2 optional free output



code	description
------	-------------

- |       |   |
|-------|---|
| MCZ04 | <ul style="list-style-type: none"> <li>• Programmable configuration for can lids</li> <li>• Application precision <math>\pm 1</math> mm @ 700 m/min</li> <li>• Working models: timer mode</li> <li>• 7" Touch screen panel TFT- 800X480</li> <li>• Power supply 220 Volt, 50 Hz</li> <li>• Software included</li> </ul> |
|-------|---|

## Inputs:

- 4 proximity switch
- 1 glue reset, 1 glue level sensor

## Outputs:

- 4 independent channels (valve)
- 1 nozzle shutter
- 1 level glue output
- 2 optional free output



## available optionals

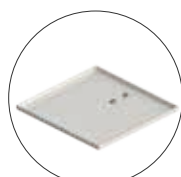
code	description
------	-------------

KCN001520	LMZ02 standard kit connectors
-----------	-------------------------------

KCN001540	LMZ04 standard kit connectors
-----------	-------------------------------



Stand



Tray



---

## LMZR remote panel

The LMZR remote panels allows for a more flexible installation, to adapt on a wide variety of machines.

The control power box is separated from the control screen side that, thanks to an adjustable bracket, can be mounted directly on the machine, the standard connection is made via cable, it is possible to integrate a wi-fi connection.

The LMZR features remains unchanged compared to the LMZ microprocessor control.

### APPLICATION FIELDS

packaging
paper converting
case maker
printing machine
tobacco and wood industry
assembly
other

### WORKING MODELS

encoder
timer

### PROGRAMMABLE VERSIONS

packaging
collator

## code

## description

- LMZ04R**
- Remote control panel with 7" Touch screen TFT - 800x480 and electrical box
  - Programmable configuration in packaging or collator version
  - 99 programs stored
  - Application precision  $\pm 1$  mm @ 700 m/min
  - Working modes: encoder or timer mode
  - Power supply 220 Volt, 50 Hz
  - Software included

### Inputs:

- 4 photocells, 1 encoder
- 1 glue reset, 1 glue level sensor

### Outputs:

- 4 independent channels (valve)
- 1 nozzle shutter
- 1 proportional valve control (0-20 mA)
- 1 level glue output
- 2 optional free output



## code

## description

- LMZ08R**
- Remote control panel with 10" Touch screen TFT - 800x480 and electrical box
  - Programmable configuration in packaging or collator version
  - 50 programs stored
  - Application precision  $\pm 1$  mm @ 700 m/min
  - Working modes: encoder or timer mode
  - Power supply 220 Volt, 50 Hz
  - Software included

### Inputs:

- 8 photocells, 1 encoder
- 1 glue reset, 1 glue level sensor

### Outputs:

- 8 independent channels (valve)
- 1 nozzle shutter
- 1 proportional valve control (0-20 mA)
- 1 level glue output
- 2 optional free output





code	description
------	-------------

- |        |  |
|--------|--|
| LMZ16R | <ul style="list-style-type: none"> <li>Remote control panel with 10" Touch screen TFT - 800x480 and electrical box</li> <li>Programmable configuration in packaging or collator version</li> <li>50 programs stored</li> <li>Application precision <math>\pm 1</math> mm @ 700 m/min</li> <li>Working modes: encoder or timer mode</li> <li>Power supply 220 Volt, 50 Hz</li> <li>Software included</li> </ul> |
|--------|--|

## Inputs:

- 8 photocells, 1 encoder
- 1 glue reset, 1 glue level sensor

## Outputs:

- 16 independent channels (valve)
- 1 nozzle shutter
- 1 proportional valve control (0-20 mA)
- 1 level glue output
- 2 optional free output



## additional hardware available

code	description
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HRD00100	WI-FI router connection
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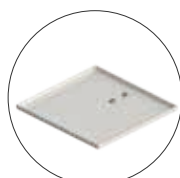
## available optionals

code	description
------	-------------

- |           |                                |
|-----------|--------------------------------|
| KCN001540 | LMZ04R standard kit connectors |
| KCN001580 | LMZ08R standard kit connectors |
| KCN0015G0 | LMZ16R standard kit connectors |

Adjustable bracket  
for panel

Stand



Tray





# ELECTROMAGNETIC VALVES

## DLK valves

The most recent applications requires higher performances standards regarding speed and precision.

The electromagnetic valves are designed for the use with low viscosity glues or fluids on wide array of high speed machines, where an high frequency and precision of dots or lines, dispensed without contact, is required.

No air supply is needed, the reliability of these valves grant a long working life.

### APPLICATION FIELDS

packaging
paper converting
case maker
printing machines
tobacco industry
assembly
food industry

### FLUID TYPES

cold adhesives and glues
inks
paints
mastics
low viscosity fluids

### APPLICATION TYPES

dots
dots and lines
spray

# DLK16

It's an high-speed dispenser of low and viscosity glues, adhesives and fluids (max 800 mPas) designed to dispense glue dots.

The DLK16 is controlled by a Zator's microprocessor control or by an external control after testing and approval of Zator company.

Full stainless steel valve, zero cavity short nozzle, needle with ceramic ball.

The scaled micrometric adjustment allows a fine control of dot size.

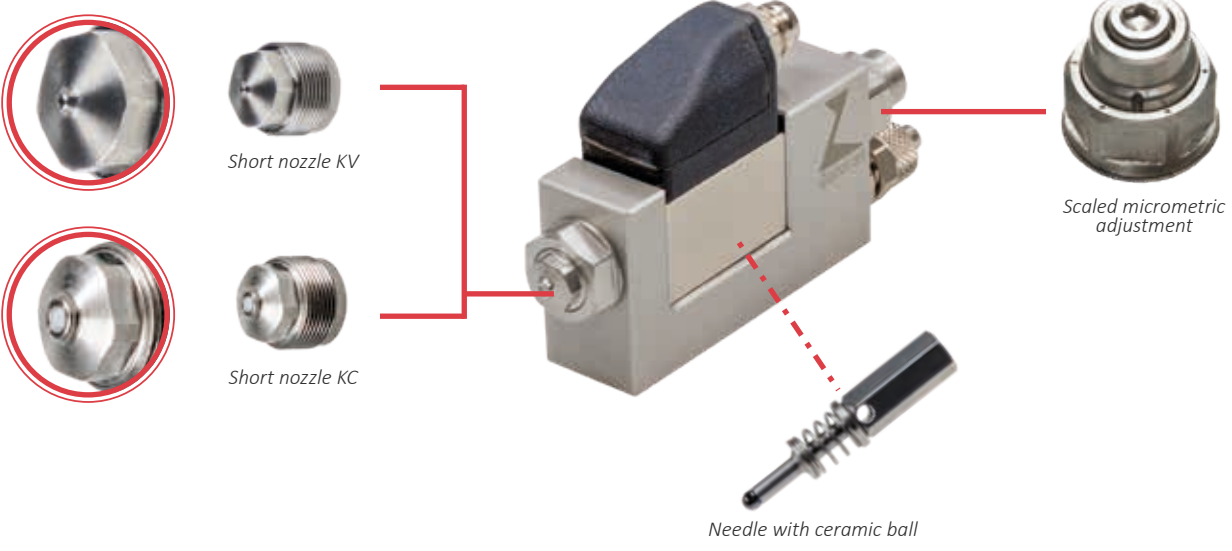


## technical data

Available nozzle diameters	from 0,15 to 0,80 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 800 mPas
Maximum working pressure	6 bar
Fluid supply connection	M5
Maximum working frequency	1000 dots/sec.
Coil	6 Volt
Weight	170 g



code	description
EA02D01XXX	Electromagnetic valve DLK16KV 6 Volt
<i>Replace XXX value with nozzle diameter desired Available nozzle diameters from 0,30 to 0,80 mm</i>	
EA14E01XXX	Electromagnetic valve DLK16KC 6 Volt with ceramic tip nozzle
<i>Replace XXX value with nozzle diameter desired Available nozzle diameters 0,15 - 0,20 - 0,30 mm</i>	
WCB322505	Cable DLK16 lenght 5 mt



## DLK22KV - LV

Electromagnetic valve for high speed glue dots application for low viscosity glues, adhesives and fluids.

Full stainless steel valve, zero cavity short nozzle (KV) or long nozzle (LV), needle with ceramic ball.

The micrometric adjustment allows a fine control of the dots size.



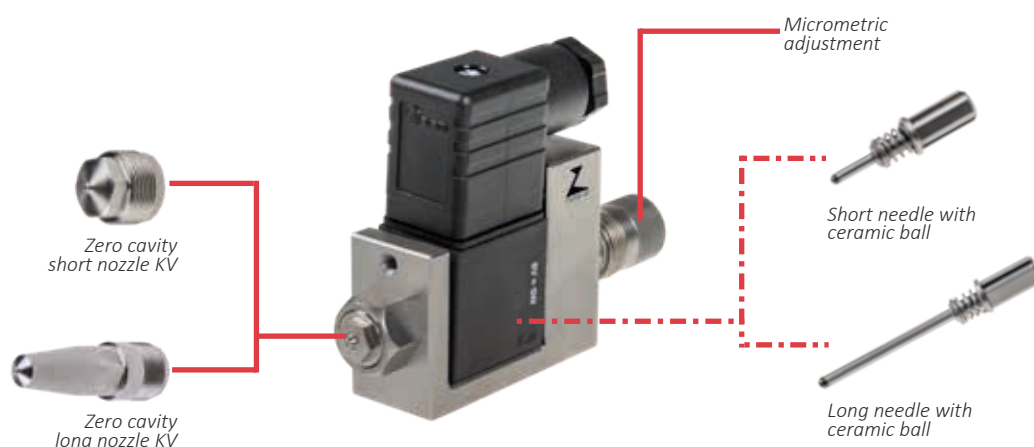
Dots and lines

### technical data

Available nozzle diameters	from 0,3 to 1,5 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

code	description
B2755XX00	Electromagnetic valve DLK22KV 24 Volt
B2760XX00	Electromagnetic valve DLK22KV 6 Volt
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	
B2765XX00	Electromagnetic valve DLK22LV 24 Volt
B2780XX00	Electromagnetic valve DLK22LV 12 Volt
B2770XX00	Electromagnetic valve DLK22LV 6 Volt

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*



# DLK22S

Electromagnetic valve for high speed glue spray application for low viscosity glues, adhesives and fluids.  
Full stainless steel valve, equipped with a self-cleaning needle and stainless steel spray nozzle and air caps with non-stick coating.  
The micrometric adjustment allows a fine control of the glue quantity.



## technical data

Available nozzle diameters	0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 2000 mPas
Maximum working pressure	8 bar
Coil	6 or 24 Volt
Weight	340 g



code	description
B2748XX00	Electromagnetic valve DLK22S 24 V round cap
B2749XX00	Electromagnetic valve DLK22S 24 V flat cap
B2750XX00	Electromagnetic valve DLK22S 6 V round cap
B2751XX00	Electromagnetic valve DLK22S 6 V flat cap

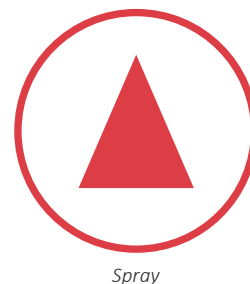
*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



# VLK22S

The VLK22S valve is the evolution of the previous electromagnetic spray valves: sturdier, with improved performances and accuracy.

This new design takes advantage of the electromagnetic properties of the coil which is the same of the VH2 valve. The valve is fully stainless steel made, with self-cleaning needle, the micrometric adjustment allows a fine tuning of the quantity of product dispensed, the stainless steel spray nozzle and air caps are non-stick coated.



## technical data

Available nozzle diameters	0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 3000 mPas
Maximum working pressure	8 bar
Coil	6 or 24 Volt
Weight	410 g



code	description
V2748XX00	Electromagnetic valve VLK22S 24 V round cap
V2749XX00	Electromagnetic valve VLK22S 24 V flat cap
V2750XX00	Electromagnetic valve VLK22S 6 V round cap
V2751XX00	Electromagnetic valve VLK22S 6 V round cap

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*

Round cap

Flat cap



Air caps with  
anti-stick coating

Micrometric  
adjustment



Stainless steel  
nozzle



Self-cleaning needle



# VH2KV - LV

The VH2 valve is the evolution of the previous generation of electromagnetic valves: sturdier, with improved performances and accuracy. This new design takes advantage of the electromagnetic properties of the coil which is now a structural part of the valve itself; the coil can also be mounted on previous generation of valves ensuring, performance upgrade without the need of replacing the valve completely. The valve is fully stainless steel made, zero cavity nozzles are available, needle with ceramic ball, the micrometric adjustment allows a fine tuning of dot size. No air supply is needed, the reliability of these valves grant a long working life without any service.



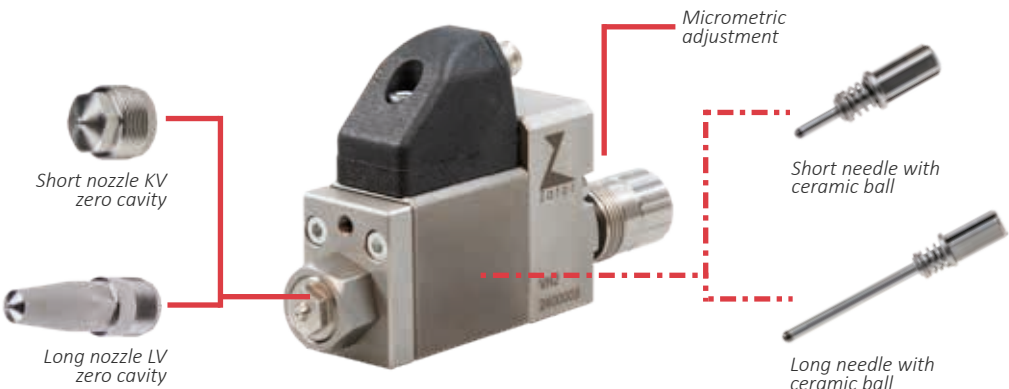
Dots and lines

## technical data

Available nozzle diameters	from 0,30 to 1,50 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 3000 mPass
Maximum working pressure	35 bar
Maximum working frequency	500 dots/sec.
Coil	6, 12 or 24 Volt
Weight	330 g

code	description
EH01C01XXX	Electromagnetic valve VH2LV 24 Volt
EG01C01XXX	Electromagnetic valve VH2LV 12 Volt
EF01C01XXX	Electromagnetic valve VH2LV 6 Volt
<i>Replace XXX value with nozzle diameter desired Available nozzle diameters from 0,30 to 1,50 mm</i>	
EH02C01XXX	Electromagnetic valve VH2KV 24 Volt
EG02C01XXX	Electromagnetic valve VH2KV 12 Volt
EF02C01XXX	Electromagnetic valve VH2KV 6 Volt

*Replace XXX value with nozzle diameter desired  
Available nozzle diameters from 0,30 to 1,50 mm*







# ELECTROPNEUMATIC SPRAY VALVES

MMZF - MF1 - MZS - MZF360 - MZS360 valves

Spray valves electro-pneumatically driven, they are used to spray a huge variety of low viscosity glues adhesives and fluids. Sturdy and compact sized, the nozzles and the air cap are non-stick coated, the needle is self-cleaning, all measures that will grant a long working life.

In the electropneumatic spray valves, the micrometric adjustment can be installed, allowing a more precise control of the amount of dispensed fluid.



FULL STAINLESS STEEL  
VALVE AVAILABLE  
ON REQUEST

## APPLICATION FIELDS

packaging
paper converting
case maker
wood industry
assembly
food industry

## FLUID TYPES

adhesives and glues
inks
paints
lubricants
low viscosity fluid

## APPLICATION TYPES

spray
spray 360°

# MMZF

Compact size spray valve for low viscosity glues, adhesives and fluids, its design and versatility make it suitable for every application requiring the use of micro-spray valves.

The valve is pneumatically controlled by external solenoid valves, sturdy and very compact sized, it has the peculiarity of nozzle and the cap with non-stick coating.

The micrometric adjustment allows a fine tuning of the dispensed fluid quantity.

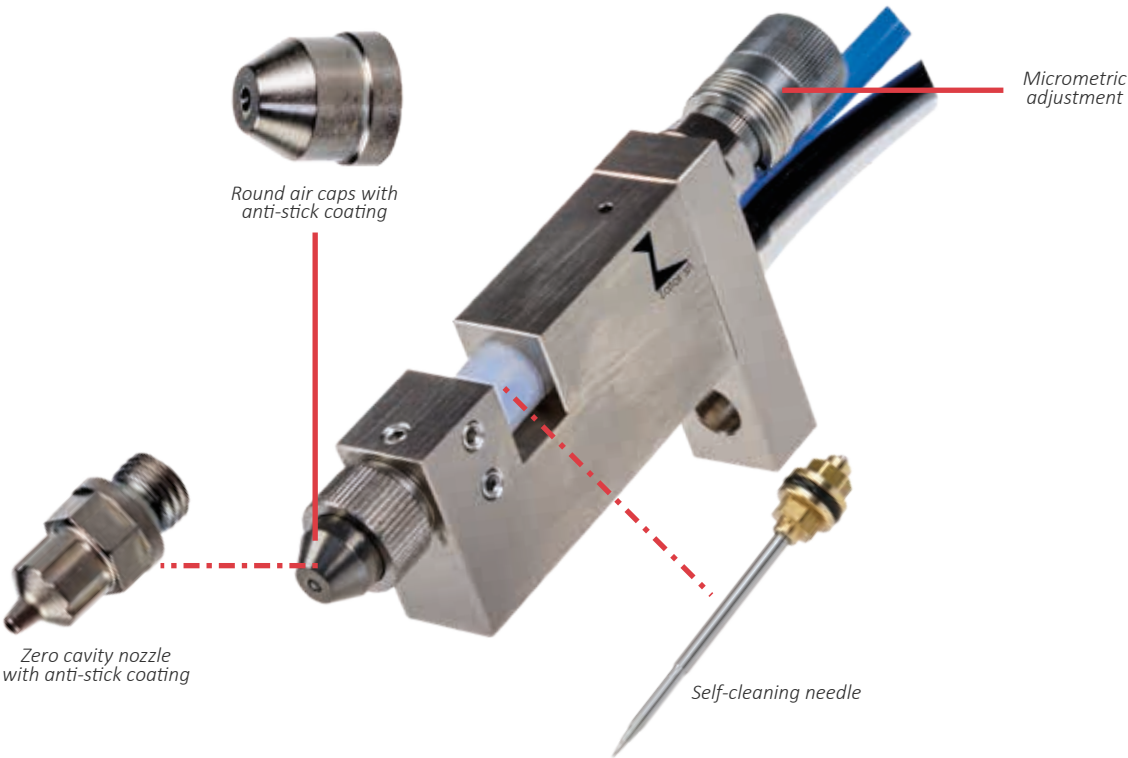


## technical data

Available nozzle diameters	from 0,5 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	simple action
Maximum working pressure	6 bar
Nebulization pressure	from 0,5 to 2,5 bar
Weight	270 g

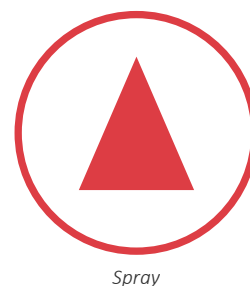


code	description
MMZF01XXRM	Spray valve MMZF XX round cap
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,5 - 0,8 - 1,0 - 1,5 mm</i>	





Spray valve for low viscosity glues, adhesives and fluids, its design make it suitable for every application requiring the use of spray valves. The valve is pneumatically controlled by external solenoid valves, sturdy and compact sized, it has the peculiarity of nozzle and the cap with non-stick coating. Available with screw or micrometric adjustment, with round or oval cap and in different nozzles diameters, the micrometric adjustment allows a fine tuning of the dispensed fluid quantity.



## technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 4 bar
Drive type	simple action
Maximum working pressure	25 bar
Nebulization pressure	from 0,5 to 2,5 bar
Weight	370 g



code	description
MF3RB00XX0	Spray valve MF1NR round cap

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*

code	description
MF3FB00XX0	Spray valve MF1NR flat cap

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*

code	description
MF3RC00XX0	Spray valve MF1RM round cap

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*

code	description
MF3FC00XX0	Spray valve MF1RM flat cap

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



Spray valve for low and medium viscosity glues, adhesives and fluids, complete with solenoid control valve; to control the nebulization air an external electrovalve is needed.

Sturdy and compact sized, it has the peculiarity of nozzle and the cap with non-stick coating. Available with round or oval cap and in different nozzles diameters, the micrometric adjustment allows a fine tuning of the dispensed fluid quantity.



*Spray*

## technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	25 bar
Coil	24 Volt
Nebulization pressure	from 0,5 to 2,5 bar
Weight	510 g

*Round cap*

*Flat cap*



*Air caps with anti-stick coating*

*Micrometric adjustment*



*Self-cleaning needle*

*Zero cavity nozzle with anti-stick coating*

code	description
C3451XX00	Spray valve MZS1XXSRRM round cap 24 V

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



code	description
C3454XX00	Spray valve MZS1XXSFRM flat cap 24 V

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



### available optionals

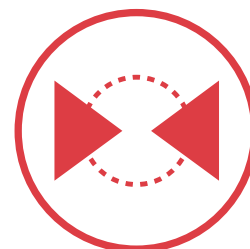
code	description
PDG00100	Nebulization air control unit

# MZF360

Spray valve for low viscosity glues, adhesives and fluids. Developed specifically for applications inside objects such as pipes, o-ring seats or in those areas that are difficult to reach with conventional spray valves.

The valve is pneumatically controlled by external solenoid valves.

The micrometric adjustment allows a fine control of the glue quantity.



*Spray 360°*

## technical data

Spray extension diameter	8 mm
Available extension lengths	from 20 to 200 mm
Air pressure control	min. 5 bar
Drive type	simple action
Maximum working pressure	6 bar
Nebulization pressure	from 0,5 to 2,5 bar
Weight	460 g



## code

## description

C38105020	Spray valve MZF360 extension diam. 8 mm L=20 mm
C38105030	Spray valve MZF360 extension diam. 8 mm L=30 mm
C38105050	Spray valve MZF360 extension diam. 8 mm L=50 mm
C38105100	Spray valve MZF360 extension diam. 8 mm L=100 mm
C38105200	Spray valve MZF360 extension diam. 8 mm L=200 mm



*End-part for 360 degrees spray application*



*Micrometric adjustment*

*Available extension lengths from 20 up to 200 mm*

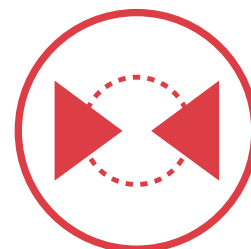


## MZS360

Spray valve for low and medium viscosity glues, adhesives and fluids complete with solenoid control valve; to control the nebulization air an external electrovalve is needed.

Developed specifically for applications inside objects such as pipes, o-ring seats or in those areas that are difficult to reach with conventional spray valves.

The micrometric adjustment allows a fine control of the glue quantity.



*Spray 360°*

### technical data

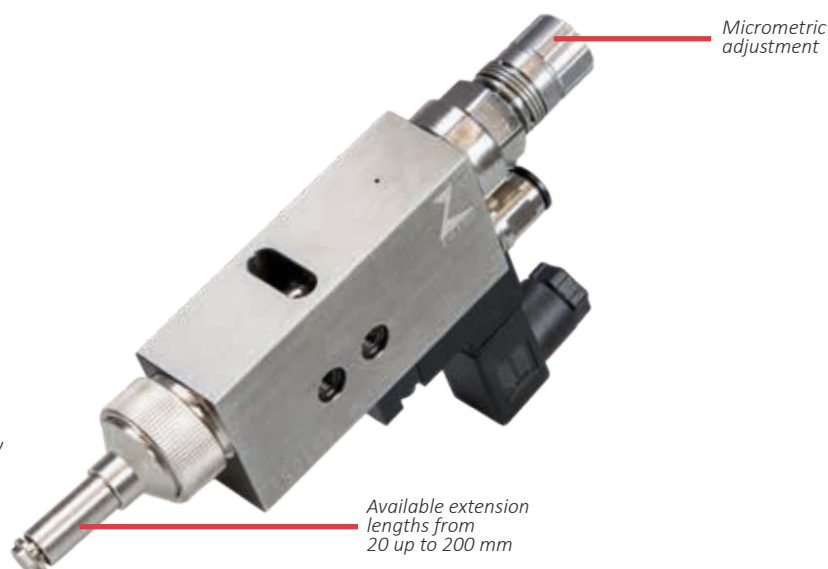
Spray extension diameter	8 mm
Available extension lengths	from 20 to 200 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	25 bar
Nebulization pressure	from 0,5 to 2,5 bar
Coil	24 Volt
Weight	580 g



code	description
C38505020	Spray valve MZS360 extension diam. 8 mm L=20 mm
C38505030	Spray valve MZS360 extension diam. 8 mm L=30 mm
C38505050	Spray valve MZS360 extension diam. 8 mm L=50 mm
C38505100	Spray valve MZS360 extension diam. 8 mm L=100 mm
C38505200	Spray valve MZS360 extension diam. 8 mm L=200 mm



*End-part for 360 degrees spray application*







# 5

## ELECTROPNEUMATIC EXTRUSION VALVES

MZD - MV1 - MK1 - M250 - MZB - MZK - SB  
valves

The electropneumatic valves are used to extrude glues, adhesives and fluid from low to high viscosity.

Sturdy and compact sized, the valves can be equipped with a wide array of nozzles, designed to meet the needs of different applications.

The dispensing is accurate, reliable in the long time, ensuring the dispensing of the right amount of product.



FULL STAINLESS STEEL  
VALVE AVAILABLE  
ON REQUEST

### APPLICATION FIELDS

packaging
paper converting
case maker
wood industry
assembly
food industry

### FLUID TYPES

adhesives and glues
inks
paints
lubricants
low, medium and high viscosity fluids

### APPLICATION TYPES

dots and lines

## MZD100

Compact size electro-pneumatic extrusion valve for low/medium viscosity glues, adhesives and fluids with solenoid valve, micrometric adjustment and drive with simple action piston. Valve body with anti-stick coating, tungsten carbide needle and stainless steel nozzle.

The micrometric adjustment allows a fine control of the glue quantity. A wide range of nozzles is available for every application needs.



*Dots and lines*

### technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 6 bar
Drive type	simple action
Maximum working pressure	30 bar
Maximum working frequency	40 dots/sec.
Coil	24 Volt
Weight	230 g



*Available nozzles*



*Micrometric adjustment*

*Valve body with anti-stick coating*



code	description
ZD01C02XX0	Extrusion valve MZD1XXLV 24 Volt

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
ZD02C02XX0	Extrusion valve MZD1XXKV 24 Volt

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
ZD07C02018	Extrusion valve MZD10018 24 Volt

code	description
ZD06C02001	Extrusion valve MZD100MG 24 Volt

code	description
ZD04C02XX0	Extrusion valve MZD1XXKL 10 mm 24 Volt

ZD05C02XX0	Extrusion valve MZD1XXKL 7 mm 24 Volt
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*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,5 to 1,5 mm*

code	description
ZD09C02005	Extrusion valve MZD100SY 24 Volt



# MV1

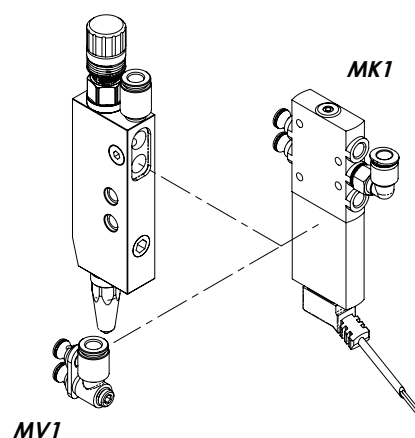
The extrusion valve MV1 is a dispenser of glues , adhesives and fluids, from low to high viscosity. Designed to be used on a variety of machines, is a pneumatically triggered, single or double acting, compact valve. Has a tungsten carbide needle, the main body is machined from solid metal with non-stick coating, providing a sturdy and easy maintenance valve. The MV1 can be equipped with a vast array of stainless steel nozzles. The micrometric adjustment (optional), allows for a more precise control of the quantity of the dispensed fluid, avoiding product waste. The MV1 can be activated even via an electropneumatic, 5 ways valve, in this case, it takes the name of MK1). Both solutions are compatible and interchangeable even after purchase.



Dots and line

## technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	single or double action
Maximum working pressure	80 bar
Weight	380 g



Screw

Micrometric



Available nozzles



Adjustment

Valve body with anti-stick coating

code	description
C3311XX00	Extrusion valve MZV4XXKVNR screw adjustment
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	



code	description
C3321XX00	Extrusion valve MZV4XXKVRM adj. with micrometric knob
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	



code	description
C3312XX00	Extrusion valve MZV4XXLVNR screw adjustment
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	



code	description
C3322XX00	Extrusion valve MZV4XXLVRM adj. with micrometric knob
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	



code	description
C3311XX01	Extrusion valve MZV4XXKLNR 7 mm screw adjustment
C3322XX00	Extrusion valve MZV4XXKLNR 10 mm screw adjustment
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,5 to 1,5 mm</i>	



code	description
C3321XX01	Extrusion valve MZV4XXKLNR 7 mm adj. with micrometric knob
C3321XX02	Extrusion valve MZV4XXKLNR 10 mm adj. with micrometric knob
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,5 to 1,5 mm</i>	



code	description
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C33110005	Extrusion valve MZV400SYNR screw adjustment
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code	description
------	-------------

C33210005	Extrusion valve MZV400SYRM adj. with micrometric knob
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code	description
------	-------------

C33110018	Extrusion valve MZV40018NR screw adjustment
-----------	--

code	description
------	-------------

C33210018	Extrusion valve MZV40018RM adj. with micrometric knob
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code	description
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C33110006	Extrusion valve MZV400MGNR screw adjustment
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code	description
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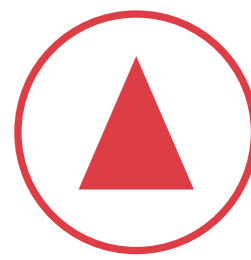
C33210006	Extrusion valve MZV400MGRM adj. with micrometric knob
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## MV1 AIRLESS

The MV1 AirLess valve is a dispenser for low and medium viscosity fluids. Product atomization takes place without the use of compressed air, the combination of product pressure and airless nozzle design produces a fan-type atomization effect.

The valve maintains the same characteristics as the MV1 and, thanks to the micrometer adjustment (optional), it is possible to control the quantity of fluid dispensed more precisely, avoiding product waste.



Airless

### technical data

Air pressure control	min. 5 bar
Drive type	single or double action
Maximum working pressure	80 bar
Weight	380 g



Available nozzles

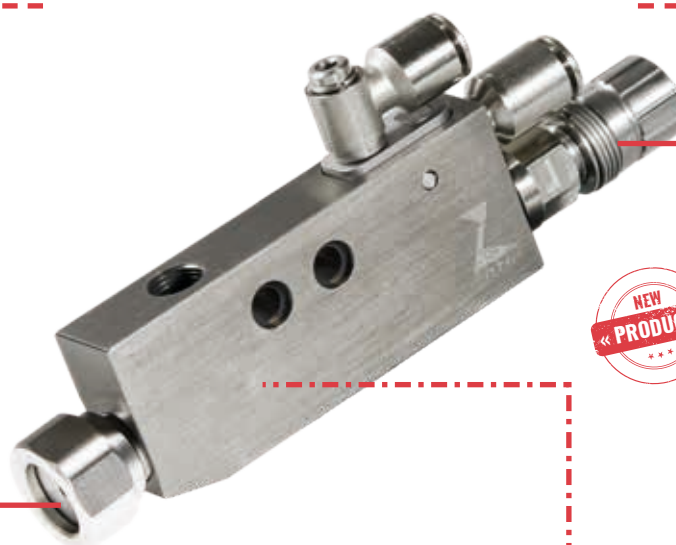


Screw



Micrometric

Adjustment



Valve body with anti-stick coating

code

description

MV40B00200 Extrusion valve MV1MGNR  
AirLess screw adjustment

code

description

MV40C00200 Extrusion valve MV1MGRM  
AirLess adj. with micrometric knob





# MK1

The extrusion valve MK1 is a high frequency dispenser of glues, adhesives and fluids, from low to high viscosity.

Designed to be used on a variety of machines, is a pneumatically triggered, single or double acting, compact valve.

Has a tungsten carbide needle, the main body is machined from solid metal with non-stick coating, providing a sturdy and easy maintenance valve. The MK1 can be equipped with a vast array of stainless steel nozzles. The micrometric adjustment (optional), allows for a more precise control of the quantity of the dispensed fluid, avoiding product waste. The MK1 can also be operated completely pneumatically, in this case, it takes the name of MV1.

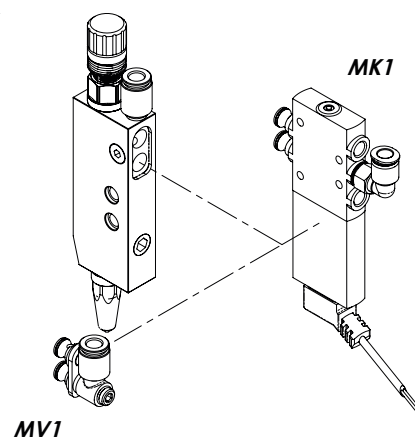
Both solutions are compatible and interchangeable even after purchase.



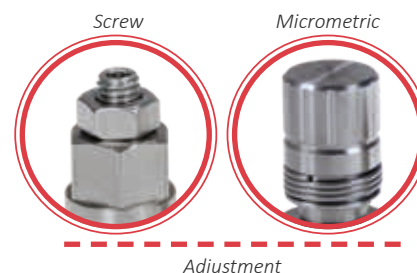
Dots and lines

## technical data

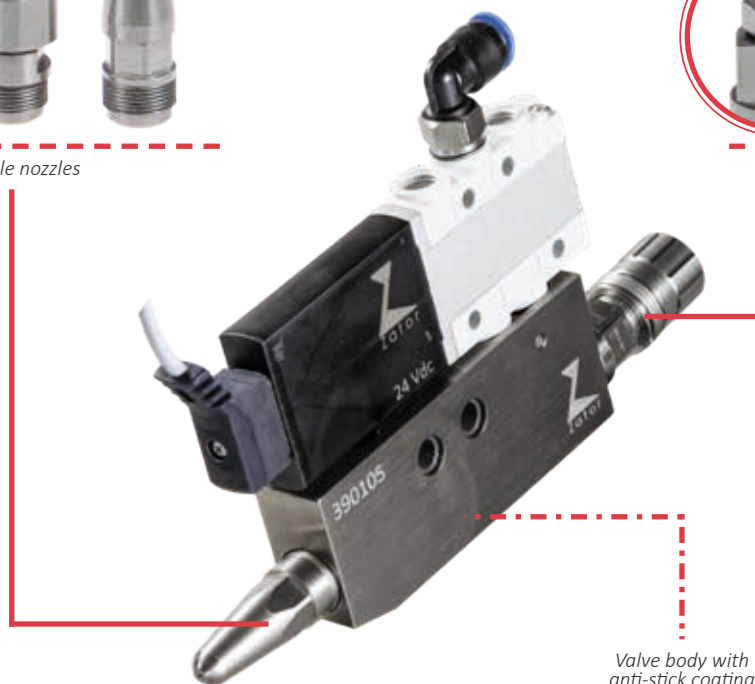
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	80 bar
Coil	24V
Maximum working frequency	80 dots/sec.
Weight	380 g



Available nozzles



Adjustment



Valve body with anti-stick coating

code	description
------	-------------

MK01B00XX0	Extrusion valve MK1LVNR screw adjustment
Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm	

code	description
------	-------------

MK01C00XX0	Extrusion valve MK1LVRM adj. with micrometric knob
Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm	

code	description
------	-------------

MK09B00150	Extrusion valve MK1SYNR screw adjustment
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code	description
------	-------------

MK09C00150	Extrusion valve MK1SYRM adj. with micrometric knob
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code	description
------	-------------

MK06B00200	Extrusion valve MK1MGNR screw adjustment
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code	description
------	-------------

MK06C00200	Extrusion valve MK1MGRM adj. with micrometric knob
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## MZB200

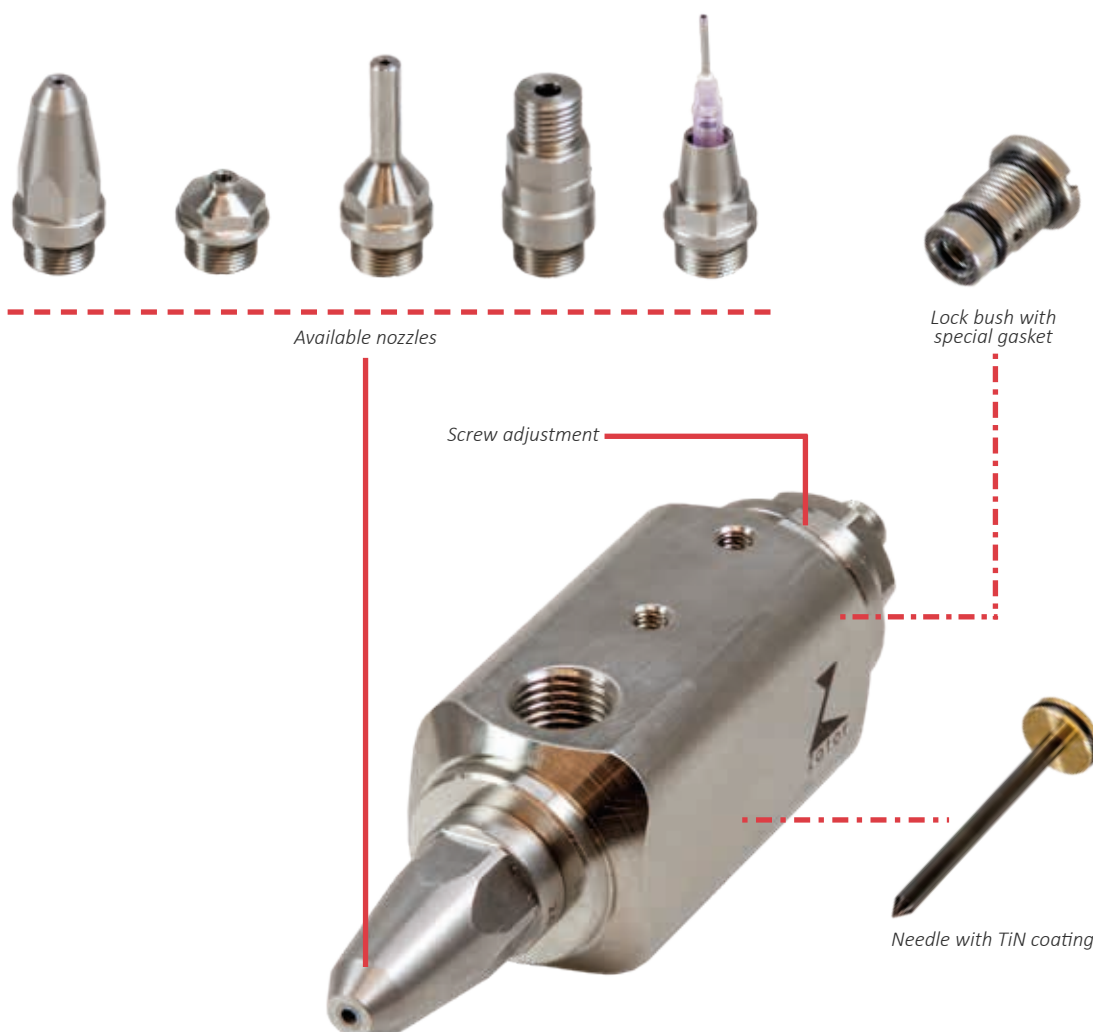
Electropneumatic dispenser designed for medium/high viscosity fluids. The valve is pneumatically controlled by external solenoid valves. Brass body with nickel coating, wear resistant titanium coated needle. A wide range of stainless steel nozzles is available for every application needs.



*Dots and lines*

### technical data

Available nozzle diameters	from 2,0 to 5,0 mm
Air pressure control	min. 5 bar
Drive type	simple or double action
Maximum working pressure	150 bar
Weight	490 g



code	description
ZB01B04XX0	Extrusion valve MZB2XXLV

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 2,0 to 5,0 mm*



code	description
ZB02B04XX0	Extrusion valve MZB2XXKV

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 2,0 to 5,0 mm*



code	description
ZB05B04XX0	Extrusion valve MZB2XXKL 10 mm

ZB26B04XX0	Extrusion valve MZB2XXKL 15 mm
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ZB27B04XX0	Extrusion valve MZB2XXKL 20 mm
------------	-----------------------------------

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 2,0 to 5,0 mm*



code	description
ZB08B04000	Extrusion valve MZB20014 1/4"



code	description
ZB09B04000	Extrusion valve MZB200SY



# MZB300

The electropneumatic extrusion valve MZB300 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. The valve is pneumatically controlled by one solenoid valve fitted on the valve body.

The valve, with nickel coating, wear resistant anti-stick coated needle and a wide selection of stainless steel nozzles, designed to meet the different needs of applications.



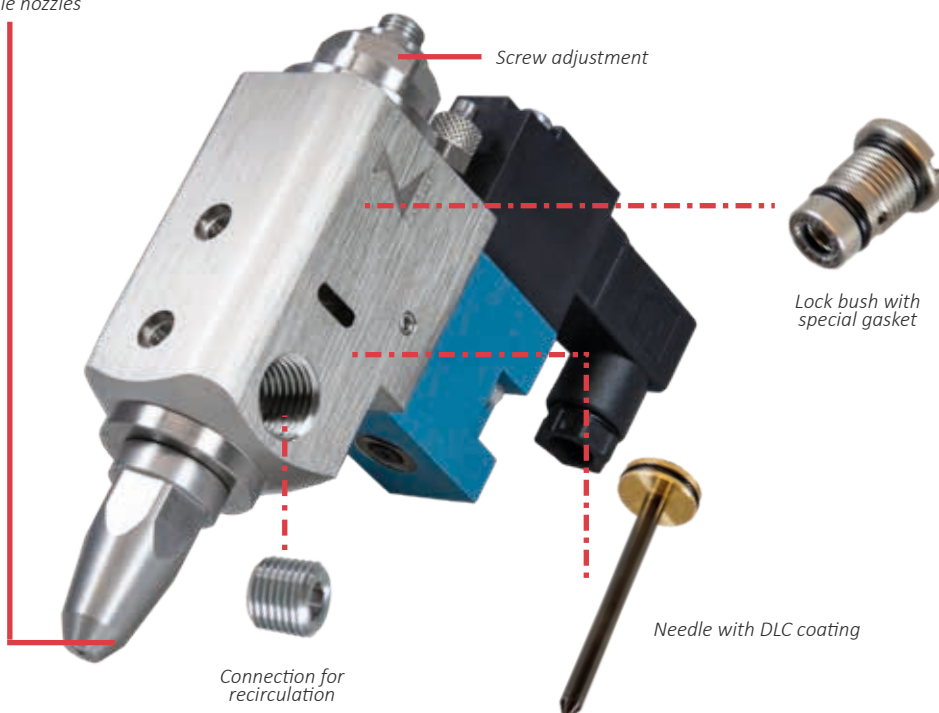
*Dots and lines*

## technical data

Available nozzle diameters	from 2,0 to 5,0 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	150 bar
Coil	24 Volt
Weight	700 g



*Available nozzles*



code	description
ZB01B05XX0	Extrusion valve MZF3XXLV 24 Volt
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 2,0 to 5,0 mm</i>	



code	description
ZB02B05XX0	Extrusion valve MZF3XXKV 24 Volt
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 2,0 to 5,0 mm</i>	



code	description
ZB05B05XX0	Extrusion valve MZF3XXKL 10 mm 24 Volt
ZB26B05XX0	Extrusion valve MZF3XXKL 15 mm 24 Volt
ZB27B05XX0	Extrusion valve MZF3XXKL 20 mm 24 Volt
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 2,0 to 5,0 mm</i>	



code	description
ZB08B05000	Extrusion valve MZF30014 1/4" 24 Volt



code	description
ZB09B05000	Extrusion valve MZF300SY 24 Volt





Electro-pneumatic extrusion valve for low/medium viscosity glues, adhesives and fluids with solenoid valve. Valve body with anti-stick coating, tungsten carbide needle and stainless steel nozzle. The micrometric adjustment allows a fine control of the glue quantity.

A wide range of nozzles is available for every application needs.



*Dots and lines*

## technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	80 bar
Maximum working frequency	20 dots/sec.
Coil	24 Volt
Weight	330 g



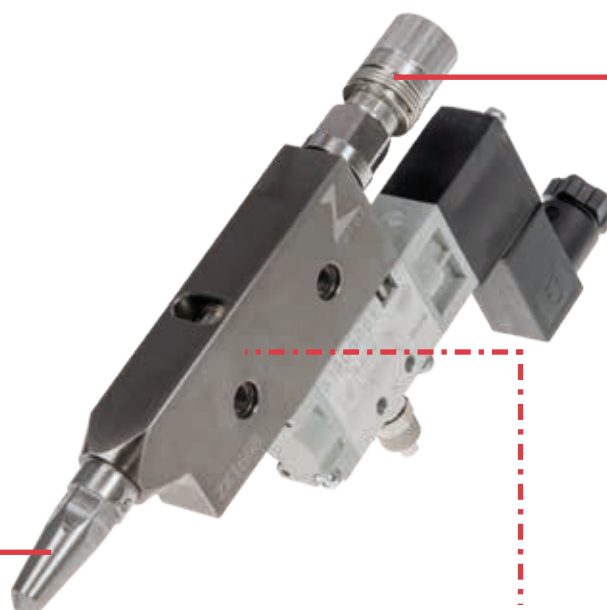
*Available nozzles*



*Screw*

*Micrometric*

*Adjustment*



*Valve body with anti-stick coating*

code	description
C3251XX00	Extrusion valve MZK4XXKVNR 24 Volt screw adjustment

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
C3261XX00	Extrusion valve MZK4XXKVRM 24 Volt adj. with micrometric knob

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
C3254XX00	Extrusion valve MZK4XXLVNR 24 Volt screw adjustment

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
C3264XX00	Extrusion valve MZK4XXLVNR 24 Volt adj. with micrometric knob

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*

code	description
C3251XX01	Extrusion valve MZK4XXKLNR 7 mm 24 Volt screw adjustment

C3251XX02	Extrusion valve MZK4XXKLNR 10 mm 24 Volt screw adjustment
-----------	---

*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,5 to 1,5 mm*

code	description
C3261XX01	Extrusion valve MZK4XXKLNR 7 mm 24 Volt adj. with micrometric knob

C3261XX02	Extrusion valve MZK4XXKLNR 10 mm 24 Volt adj. with micrometric knob
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*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,5 to 1,5 mm*



code	description
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C32510005	Extrusion valve MZK400SYNR 24 Volt screw adjustment
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code	description
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C32610005	Extrusion valve MZK400SYRM 24 Volt adj. with micrometric knob
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code	description
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C32510018	Extrusion valve MZK40018NR 24 Volt screw adjustment
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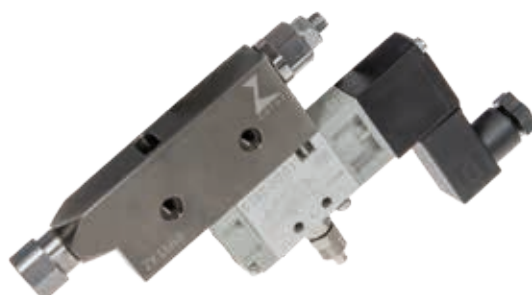
code	description
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C32610018	Extrusion valve MZK40018RM 24 Volt adj. with micrometric knob
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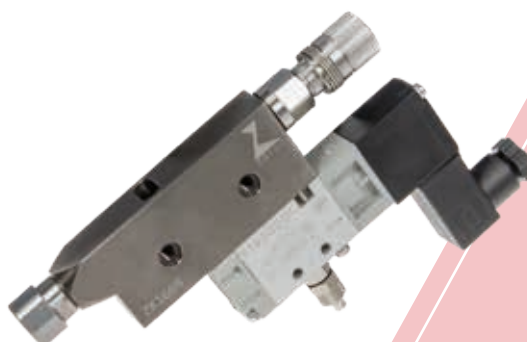
code	description
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C32510006	Extrusion valve MZK400MGNR 24 Volt screw adjustment
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code	description
------	-------------

C32610006	Extrusion valve MZK400MGRM 24 Volt adj. with micrometric knob
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# SB

The electropneumatic snuff back valve SB has been designed for the use on a wide array of machines, it's a dispenser of medium and high viscosity glues, adhesives and fluids.

The SB valve is the ideal choice for applications that require high amount of fluid to be dispensed, is pneumatically controlled by one external solenoid valve.



Dots and lines

## 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	520 g

code	description
SB00B05000	Pneumatic snuff back valve
SB00B05002	Pneumatic snuff back valve complete with flange
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



KV nozzle  
Ø from 1,00 to 1,90 mm

KV nozzle  
Ø from 2,00 to 4,00 mm



# M250

Electro-pneumatic extrusion valve without solenoid valve equipped with diaphragm needle, designed for applications of anaerobic glue, cyanoacrylate glue, or other low viscosity aggressive fluids. Anodized aluminium valve body, stainless steel needle with diaphragm made of non-reactive material and set-up for slim dosing needle.

The micrometric adjustment allows a fine control of the glue quantity.



Dots and lines

## technical data

Set-up for quick connection	slim dosing needle
Valve body	anodized aluminium
Air pressure control	min. 5 bar
Drive type	simple or double action
Maximum working frequency	2 dots/sec.
Maximum working pressure	10 bar
Weight	250 g



code	description
M250	Diaphragm valve M250SYRM

Set-up for quick connection of  
slim dosing needle

Micrometric  
adjustment

Anodized aluminum  
valve body

Needle with diaphragm  
made of non-reactive  
material

PTFE body







# 6

## ELECTROPNEUMATIC COATING VALVES

### MZL - SPL valves

Electropneumatic valves are made for coating applications of low, medium, high viscosity glues, adhesives and fluids. Sturdy, small sized and versatile, the coating valves can be equipped with different types of coating heads, designed to meet the needs of different applications.

The valves can dispense continuous and non continuous coating.



FULL STAINLESS STEEL  
VALVE AVAILABLE  
ON REQUEST

#### APPLICATION FIELDS

packaging
paper converting
case maker
wood industry
assembly
food industry

#### FLUID TYPES

adhesives and glues
silicones
greases
lubricants
low, medium and high viscosity fluids

#### APPLICATION TYPES

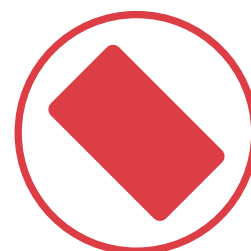
coating

## MZL100

Electro-pneumatic coating valve for medium/high viscosity glues, adhesives and fluids with solenoid valve, micrometric adjustment and drive with double action piston.

Valve body with anti-stick coating, tungsten carbide needle and stainless steel coating head.

The micrometric adjustment allows a fine control of the glue quantity.



Coating

### technical data

Available coating widths	16 - 30 - 50 mm
Coating head widths	22 - 40 - 60 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	80 bar
Coil	24 Volt
Weight	520 g



code	description
C34740816	Coating valve MZL122RM coating width 16 mm - 24 Volt
C34740830	Coating valve MZL140RM coating width 30 mm - 24 Volt
C34740850	Coating valve MZL160RM coating width 50 mm - 24 Volt

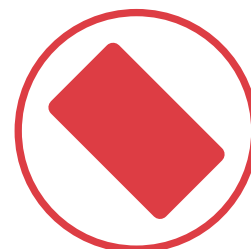
Stainless steel coating head  
Widths available:  
22 - 40 - 60 mm

Micrometric  
adjustment

Valve body with  
anti-stick coating

The coating valve SPL has been designed and realized for its use on various kind of production machines: its design make it ideal for any applications that require the use of coating valves with snuff back technology.

It's a dispenser of any kind of viscosity glues, adhesives and fluids, in applications that requires high quantities of dispensed fluid, is pneumatically controlled by one external solenoid valve.



Coating

## technical data

Coating plates	Stainless steel
Valve body	Brass nickel teflon-coated and anodized aluminium
Coating width	up to 100 mm
Coating head width	108 mm
Air pressure control	min. 5 bar
Drive type	simple action
Maximum working pressure	40 bar
Cycle time	40 ms
Weight	1500 g

## code

## description

SPL000100 Pneumatic coating valve SPL  
coating width up to 100 mm



Stainless steel coating head





# APPLICATIONS

examples

Different applications of Zator systems are shown on the next pages.

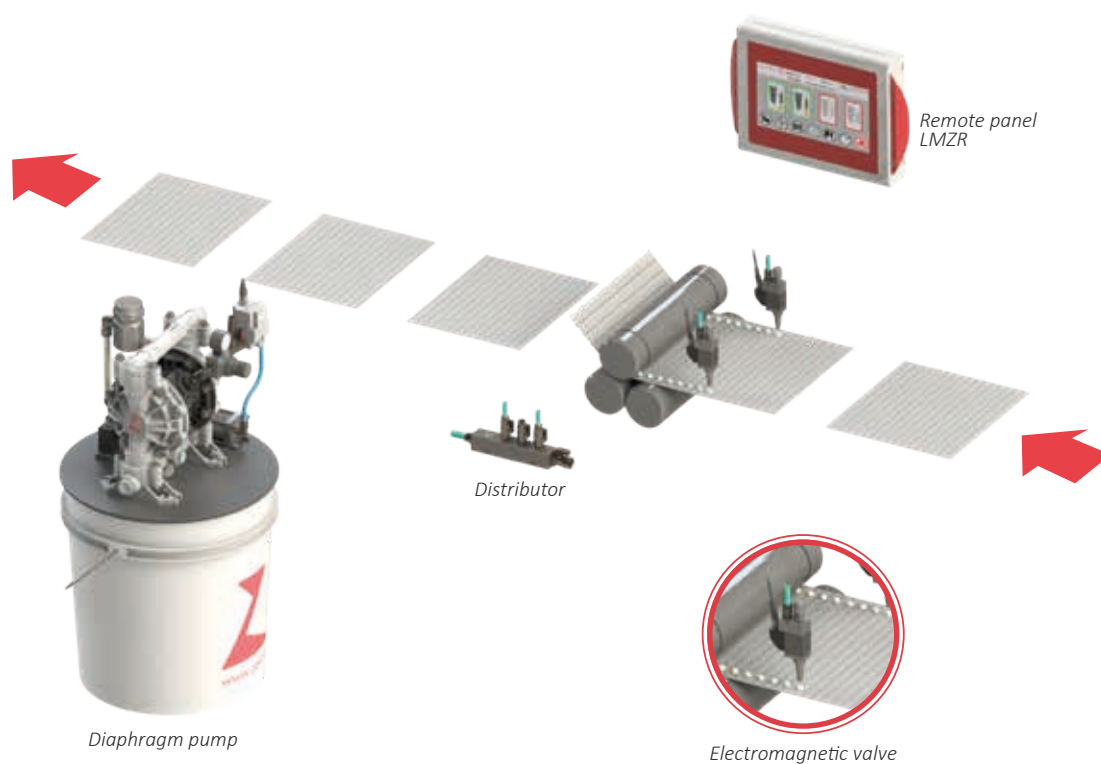
Thanks to our wide experience we are able to find the most suitable technical solution for your application field needs.

## APPLICATIONS

folding machine	can lids
collator machine	paper bag
folder gluer machine low pressure	spray
folder gluer machine high pressure	seals
trayforming	furniture industry

## FOLDING MACHINE

This implant is usually adopted for the application of glue on an automated system, in this case, “mailing” type. The control with remote panel LMZR, paired with encoder, allows to calibrate and synchronize, accurately the application of glue dots disbursed by the VH2 valve on the envelope, before folding. This type of system will grant repeatability, precision and speed.

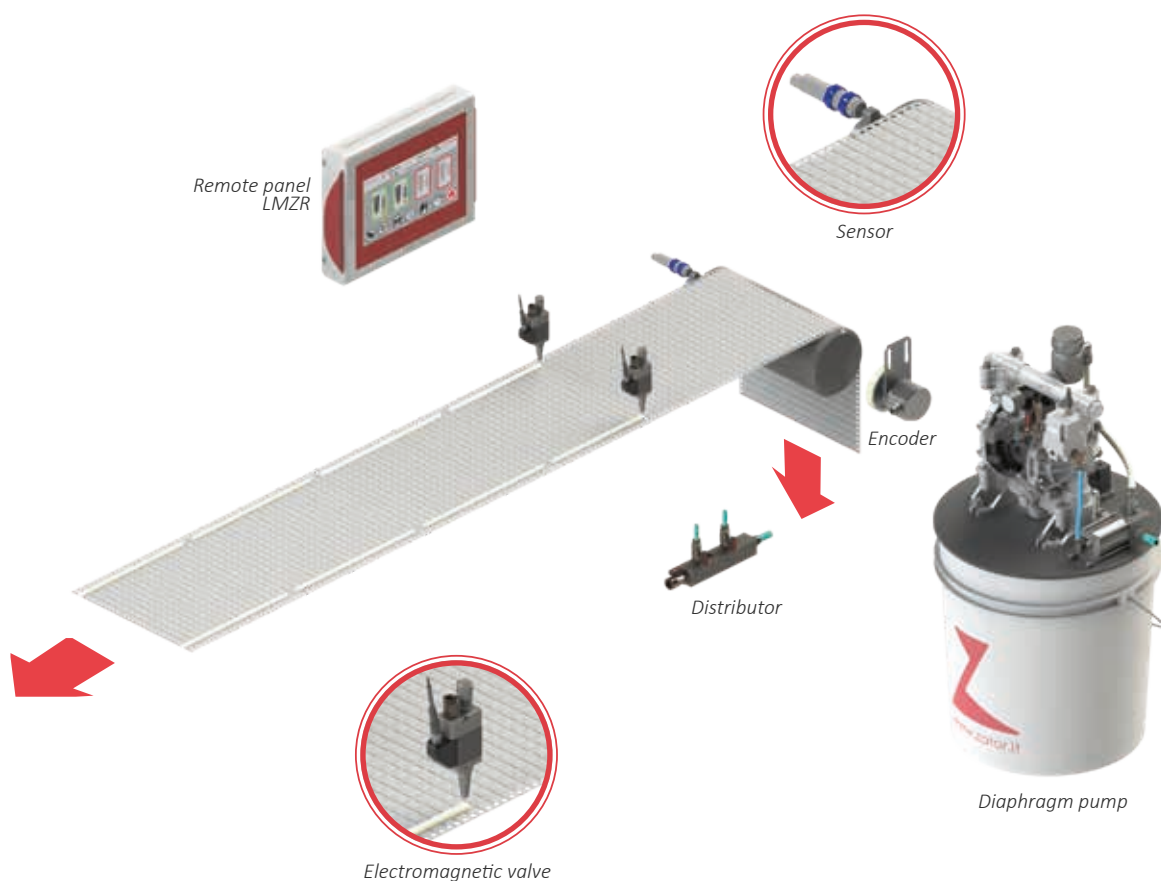




## COLLATOR MACHINE

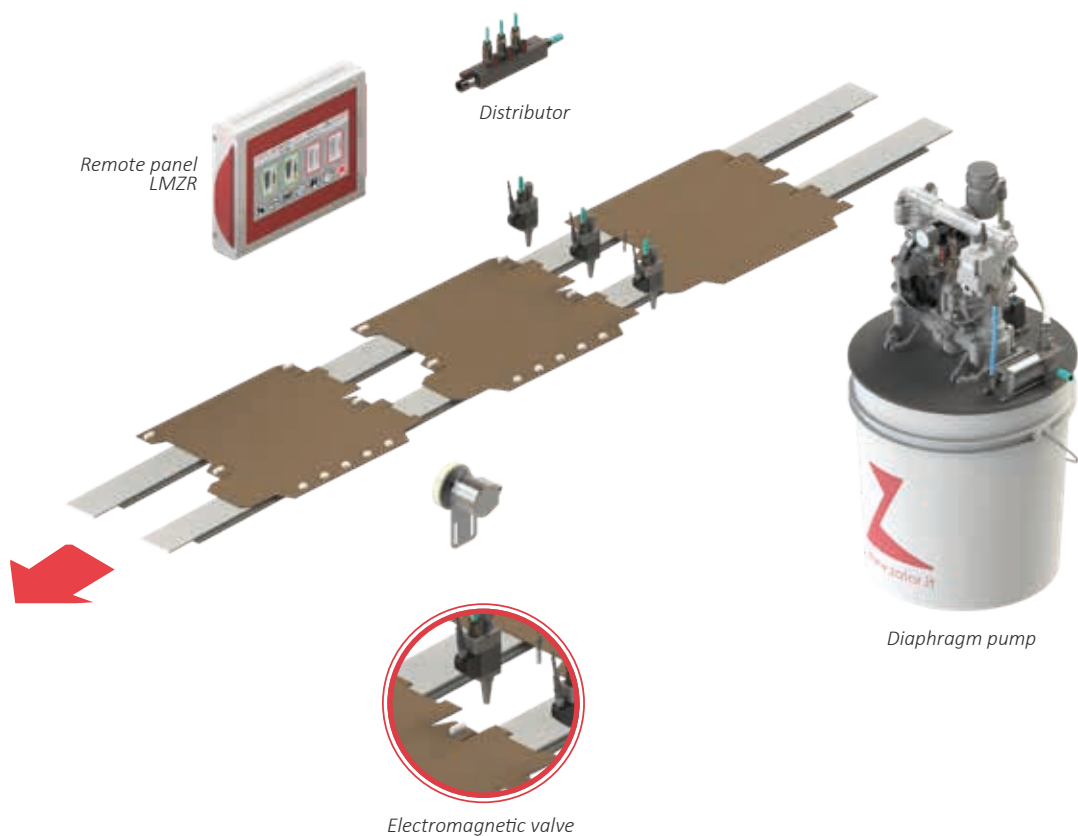
The continuous glue application require a precise dosing system, dispensing must adapt to different implant speed.

By using the remote panel LMZR control, it is possible to program the glue line pattern, for example, to make an interruption near the cutting or folding line, the system is activated by a sensor on the folding cylinder, the diaphragm pump provide a constant supply of low viscosity glues.



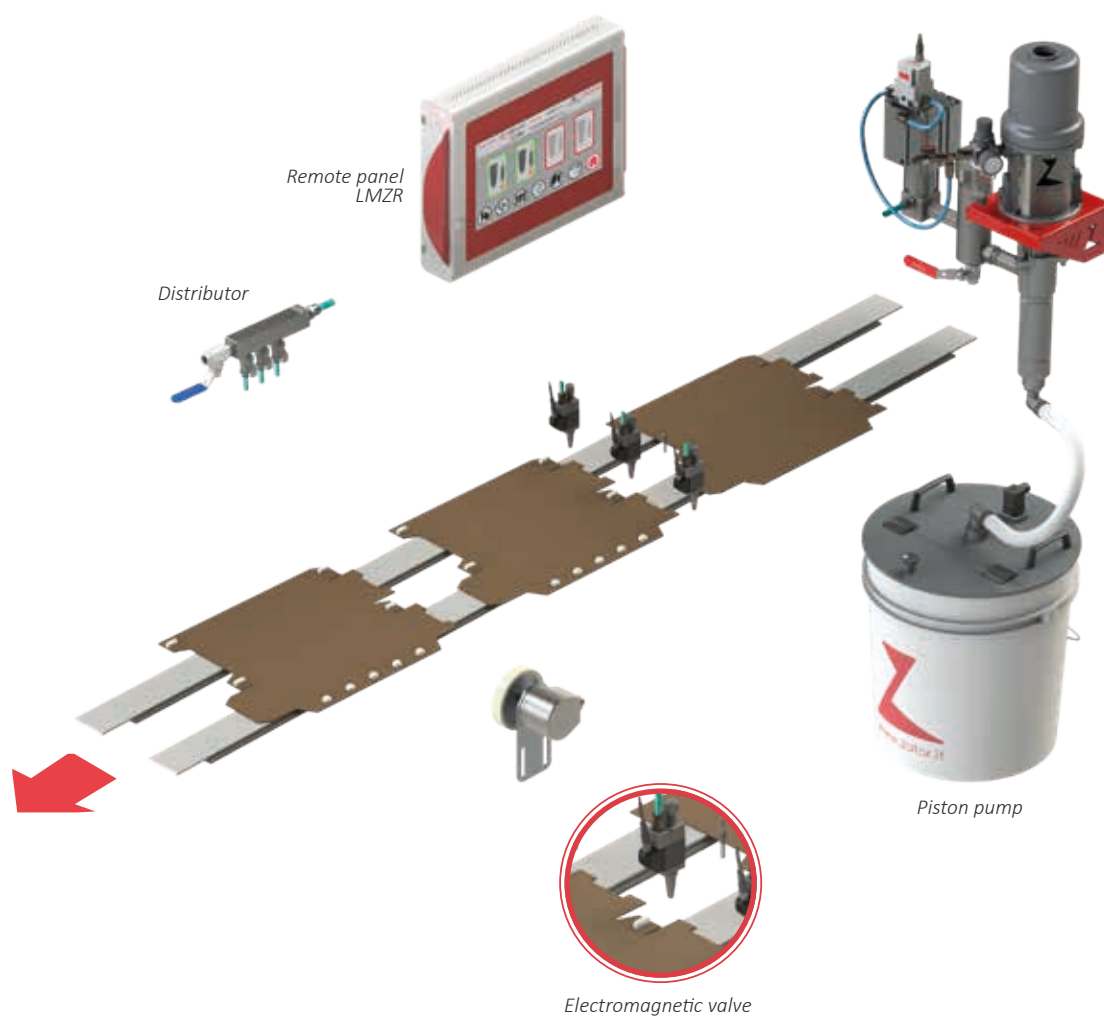
## FOLDER GLUER MACHINE low pressure

The Zator systems are perfectly compatible with all folder-gluer machines or similar. The control with remote panel LMZR provide a user-friendly interface and an easy programming, the valves and accessories compact dimensions allows to be fitted in all type of machines, even in case of old equipment revision. The diaphragm pump provide a constant supply of low viscosity glues.



## FOLDER GLUER MACHINE high pressure

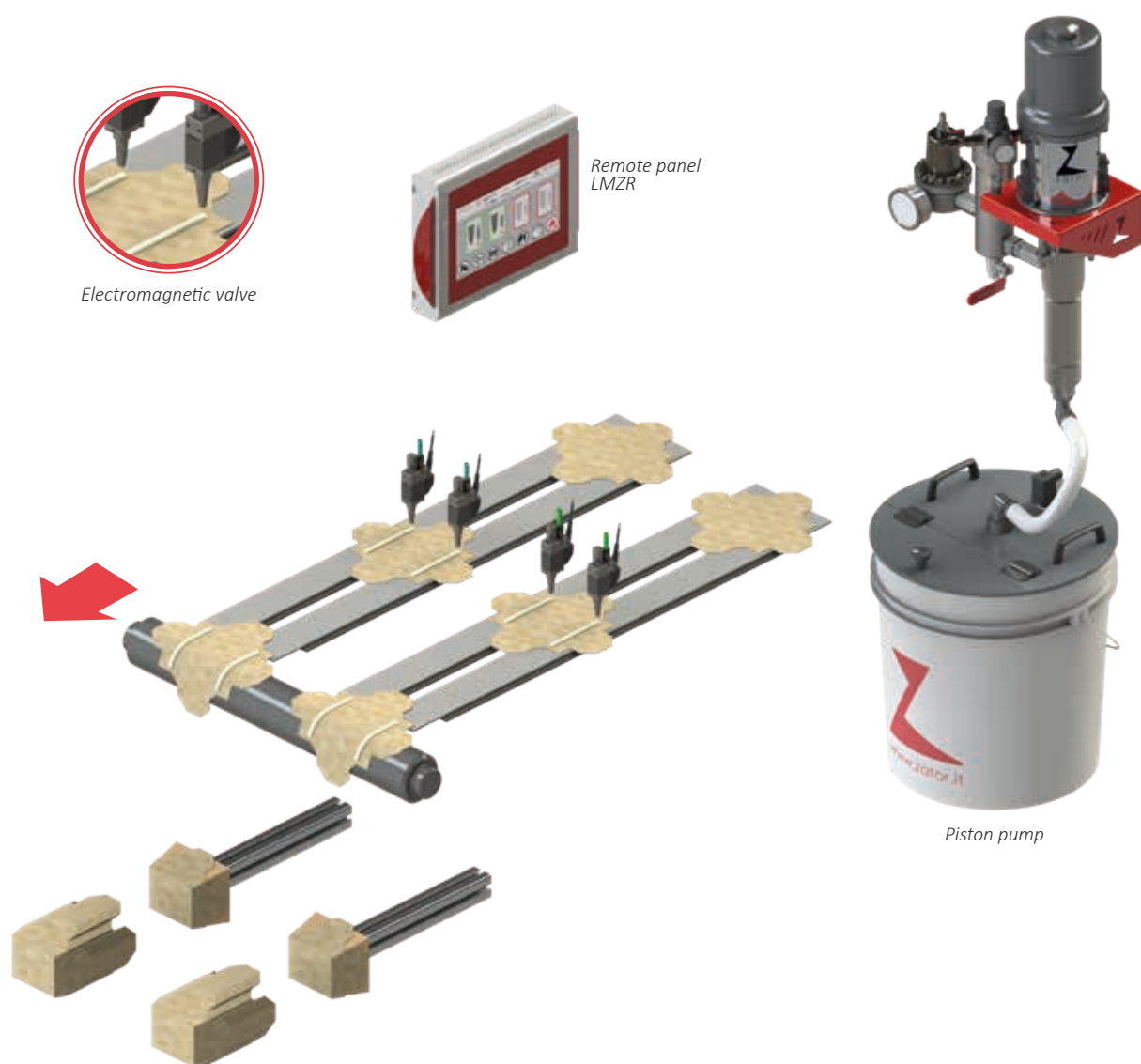
Using a piston pump allows for medium viscosity glues to be used in a folder-gluer machine, like the previous example, this system can be integrated on any type of folder-gluer machine or similar, even in case of older equipment revision.



# TRAYFORMER

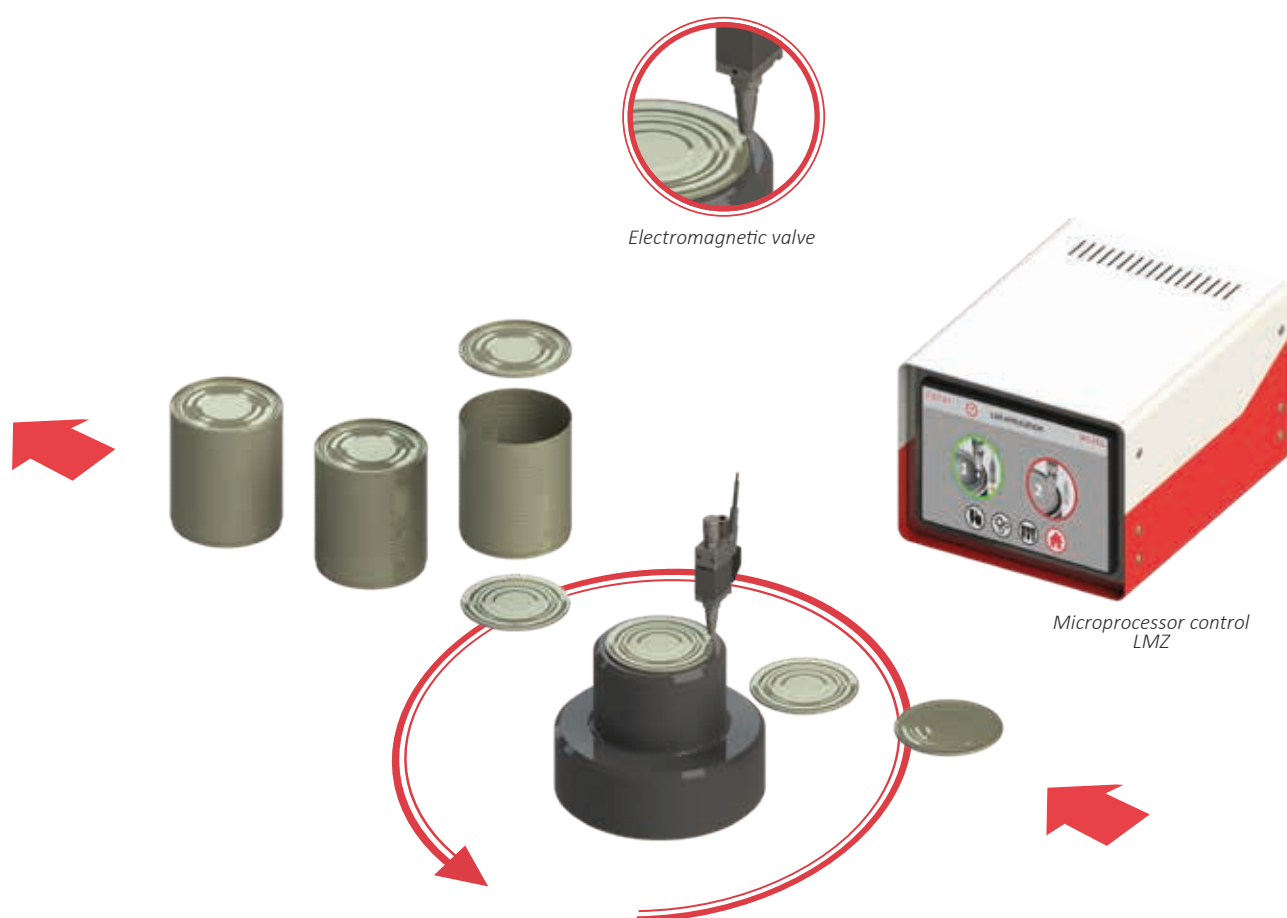
Trayforming machines are used to form and fold a carton and give them their final shape as a cardboard or a tray.

The entire process can be automated by using LMZR control with remote panel and sped up with Zator electromagnetic valves.



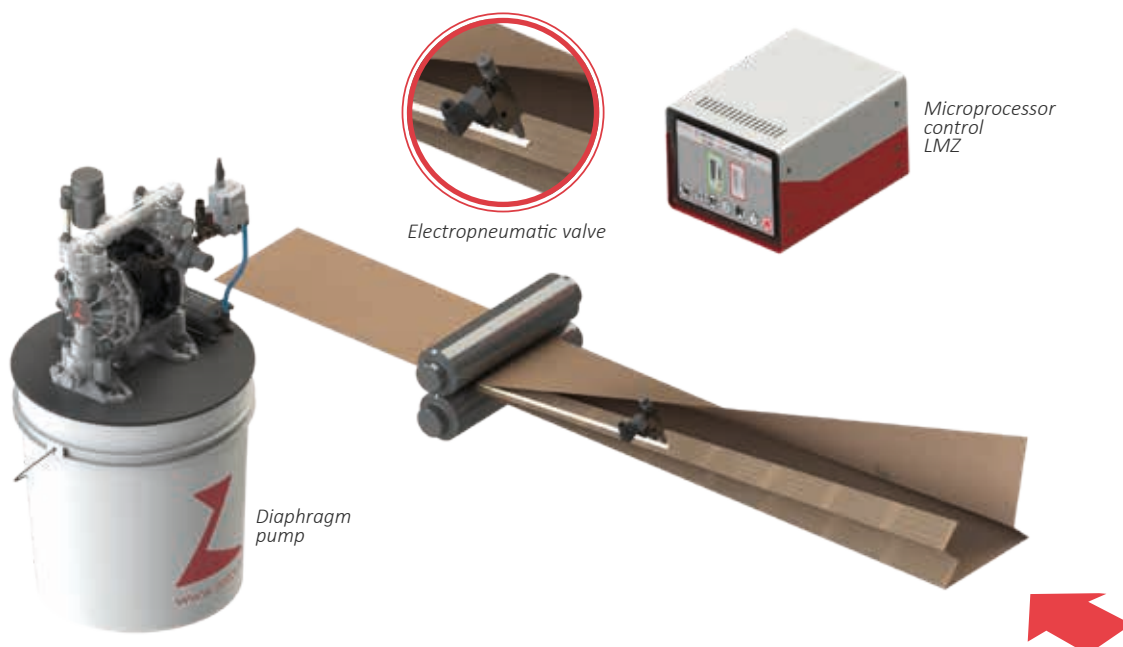
## CAN LIDS

If the mechanical clipping is not enough to guarantee a good seal of the fluid in the can, is necessary to apply a mastic on the can lid edge. Zator electromagnetic valves grant a high speed and precise disbursement and can be integrated perfectly in this process.



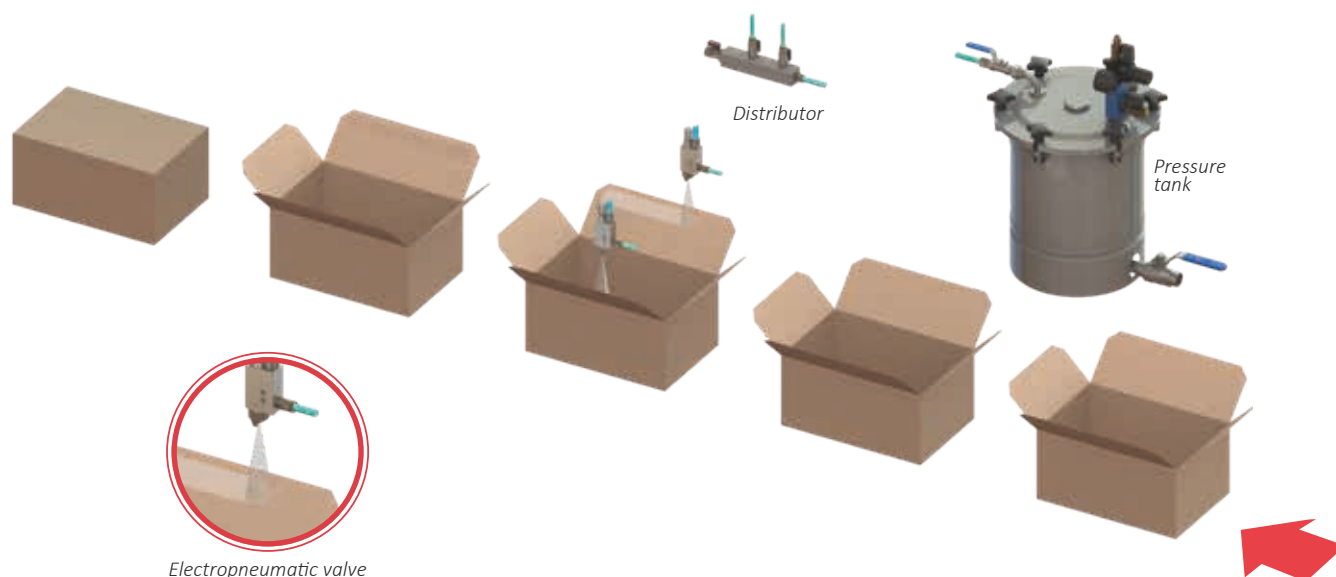
## PAPER BAG

In the paper bags production, the side gluing is a simple application that can be done by using, for example, the electropneumatic valve; it is possible to dispense the right amount of glue continuously, at every machine speed on the bag side, the controlled disbursement of an even, thin line of glue will greatly improve the final product quality.



## SPRAY

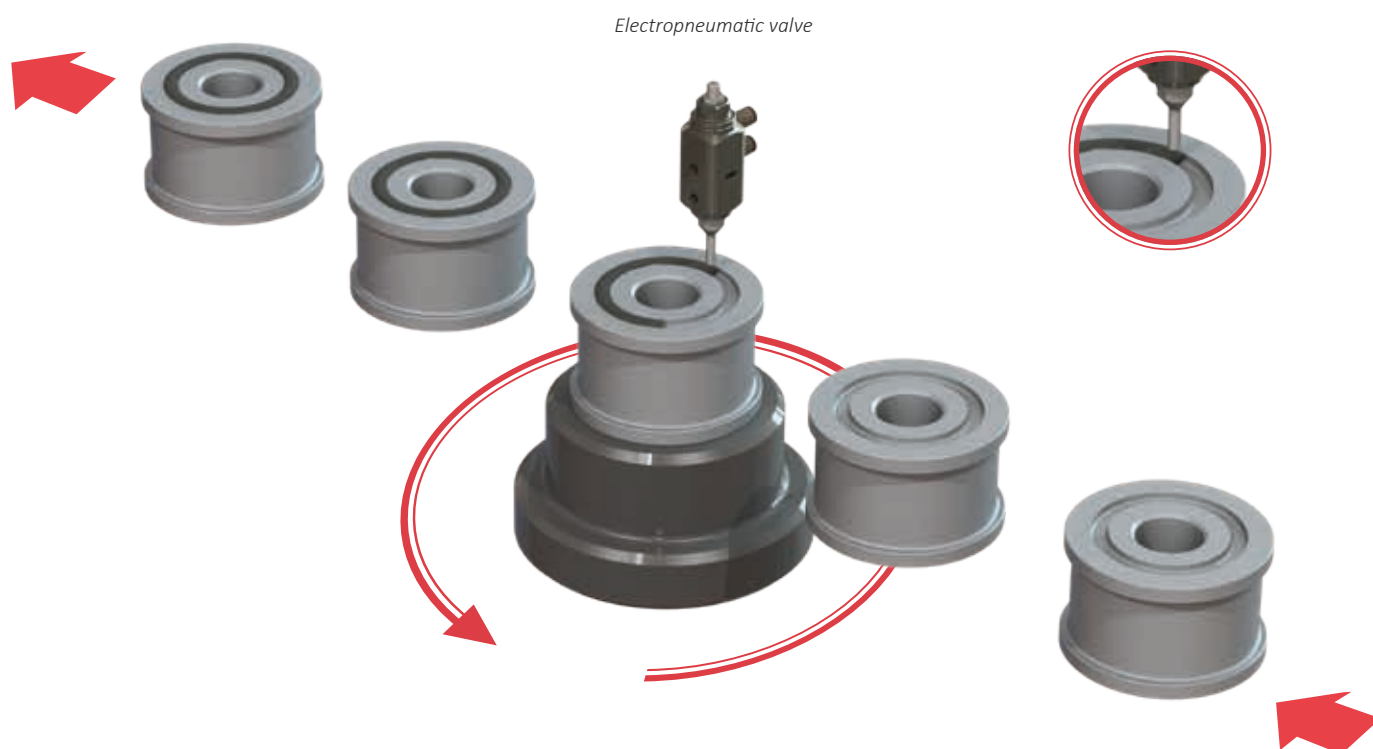
When a dispensing by nebulization is requested, the use of the electropneumatic spray valves is ideal. Multiple valves can be connected contemporary, via distributors, to cover a wider surface, with a limited amount of product, this also, allows gluing multiple parts of the same item.





## SEALS

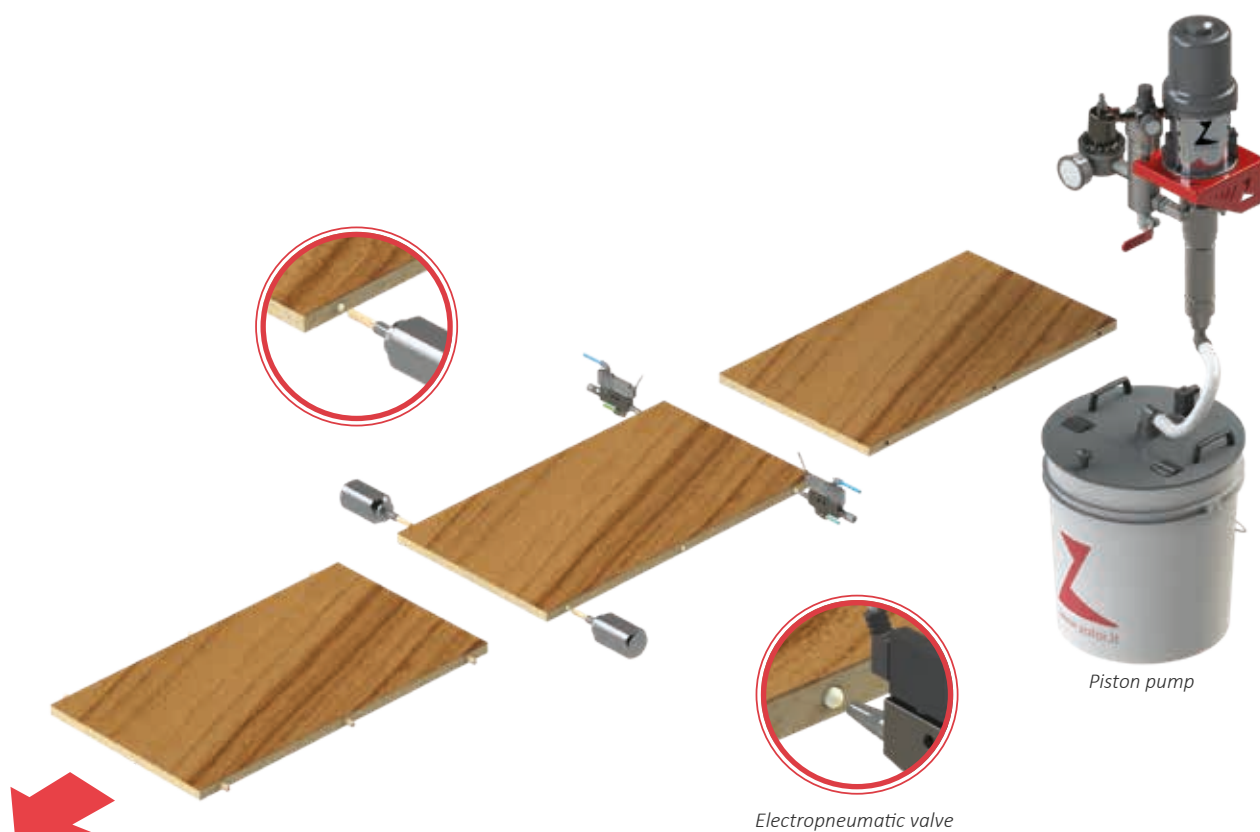
If using a standard gasket is not possible or, for technical necessities, a non removable gasket is needed, the pneumatic valve allows the accurate dispensing of an high amount of medium/high viscosity products, like mastics, silicones, resins and other fluids, in an automated way.



## DOWEL INSERTION MACHINE

The automated assembly process by gluing is a frequent application in the furniture industry, allowing a production cost reduction without compromising the quality of the finished product.

Zator electropneumatic valves are ideal for use in the furniture industry, in this example, valves dispensing glue in the dowels holes.



## VENEERED PANELS

In case of a large wood panel, an even, constant glue dispensing on a wide surface, is essential to ensure a strong bond.

Zator electropneumatic valves can be battery-mounted, when the application needs it. In this example electropneumatic valves dispensing in a veneering machine.



*Electropneumatic valve*



*Piston pump*



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