

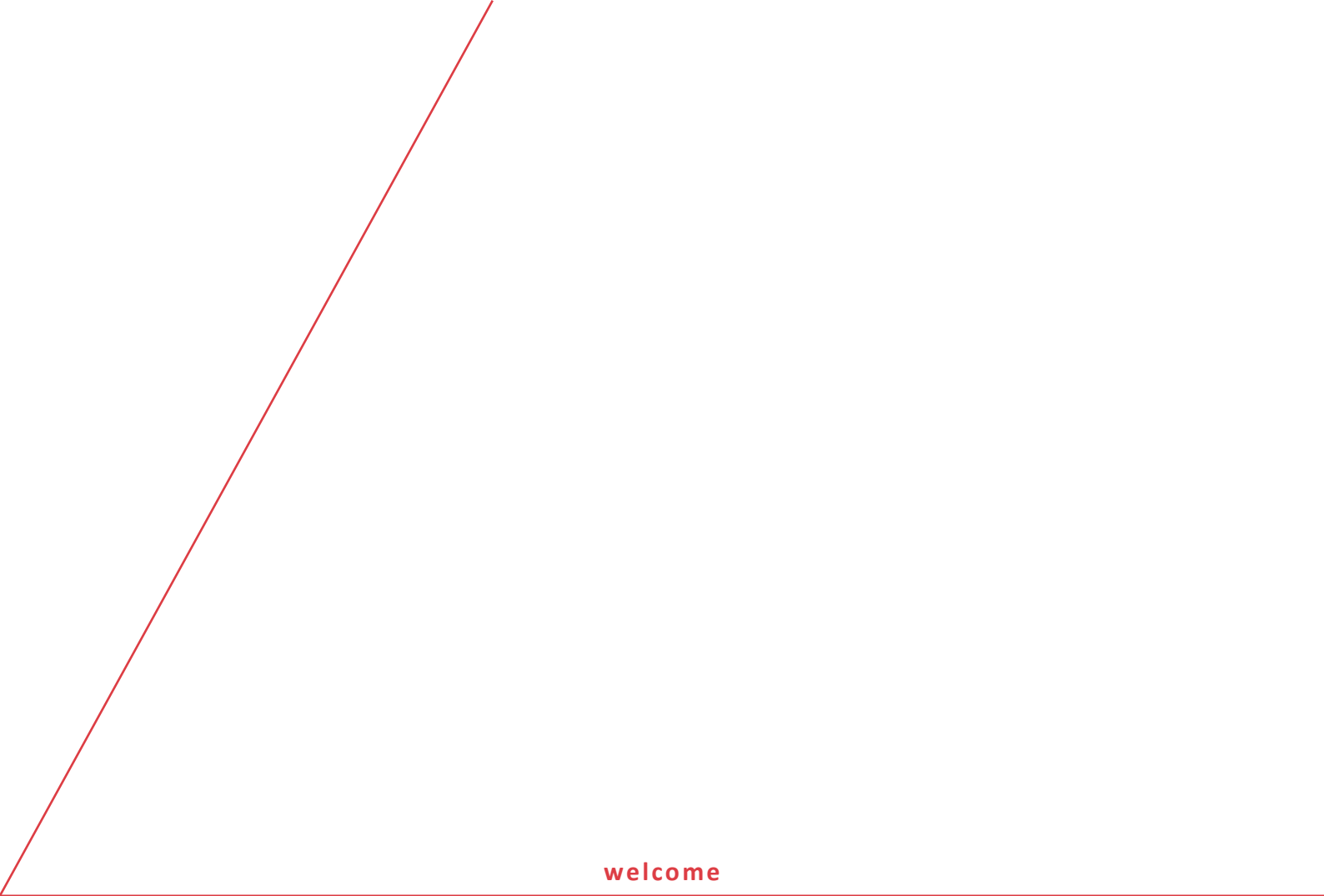


Zator  
gluing solutions

products  
catalog

2023





**ZATOR SRL**

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# Index

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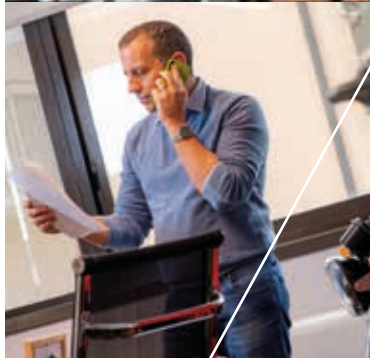
<b>ABOUT US</b>	<b>6</b>
<b>GLUE FEED UNITS</b>	<b>13</b>
diaphragm pump	13
A158001	14
A159002	15
piston pump	17
GFUP02010	18
GFUP02011	19
A169001	20
A170001	21
A190001	22
A171001	23
light - LDG - MDG pressure tank	25
9 LITERS - 18 LITERS	26
LDG - MDG	27
<b>CONTROLS</b>	<b>29</b>
LMZ microprocessor control	29
LMZR control panel	35
<b>ELECTROMAGNETIC VALVES</b>	<b>39</b>
DLK - VLK - VH2 valves	39
DLK16	40
DLK22KV - LV	41
DLK22S	42
VLK22S	43
VH2KV - LV	44
<b>ELECTROPNEUMATIC SPRAY VALVES</b>	<b>47</b>
MMZF - MF1 - MZS - MZF360 - MZS360 valves	47
MMZF	48
MF1	49
MZS	51
MZF360	53
MZS360	54



<b>ELECTROPNEUMATIC EXTRUSION VALVES</b>	<b>57</b>
MZD - MV1 - MK1 - M250 - MZB200 - MZK - SB valves	57
MZD100	58
MV1	60
MK1	63
MZB200	65
MZK	67
SB	70
M250	71
<b>ELECTROPNEUMATIC COATING VALVES</b>	<b>73</b>
MZL - SPL valves	73
MZL100	74
SPL	75
<b>OTHER COMPONENTS</b>	<b>77</b>
optionals and spare parts	77
STAND STN SERIES	78
LEVEL CONTROLS	81
<b>APPLICATIONS</b>	<b>83</b>
examples	84
FOLDING MACHINE	84
COLLATOR MACHINE	85
FOLDER GLUER MACHINE low pressure	86
FOLDER GLUER MACHINE high pressure	87
TRAYFORMING	88
CAN LIDS	89
PAPER BAG	90
SPRAY	90
SEALS	91
DOWEL INSERTION MACHINE	92
VENEERED PANEL	93



# ABOUT US



## 12.000

VALVES PRODUCED  
IN THE LAST 3 YEARS



## 194.300

PRODUCED ITEMS  
IN THE LAST 3 YEARS

## +27%

GROWTH RATE  
IN THE LAST 3 YEARS



## THE MADE IN ITALY THAT CONVINCED THE WORLD

**WE HAVE SPECIALIZED FOR 25 YEARS  
IN THE DESIGN, CONSTRUCTION AND TESTING  
OF SYSTEMS FOR APPLICATION OF  
ADHESIVES, GLUES AND FLUIDS IN SECTORS  
COMPETITIVE AND HIGHLY REGULATED  
SUCH AS: PAPER CONVERTING, AUTOMOTIVE,  
WOOD/FURNITURE, TOBACCO AND FOOD.**

We take care of every stage of production inside:  
from the selection of materials to the technical office,  
from the workshop to delivery, our supply chain  
is fully controlled in real time.

We are equipped with a fleet of controlled machine tools  
updated and complete numeric that allows us  
to combine the production with the standard production  
of products configured according to your needs.  
Thanks to the agile company dimension and our  
approach based on maximum flexibility,  
we guarantee custom solutions in short times.

# A RANGE FOR ALL INDUSTRIES

WE DESIGN AND INTERNALLY  
PRODUCE TWO DIFFERENT  
GLUING SYSTEMS,  
COMPLETE WITH GLUE  
FEED UNITS, CONTROLS,  
VALVES, SENSORS AND  
ADDITIONAL COMPONENTS:



cold glue  
systems

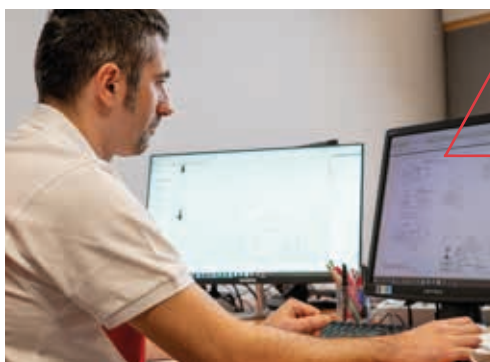


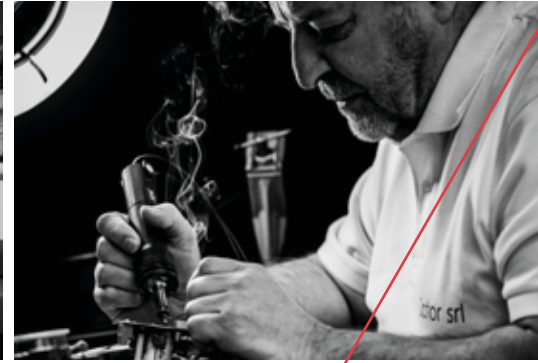
hot glue  
systems

## THE RELIABILITY METHOD

In addition to the products in the catalog, which we assemble, test and deliver in a week or little more, we design and build custom-made products following a rigorous supply chain process.

A method refined over time that allows us to optimize materials, resources, times, and respect the agreed budget.





# WE ONLY SIGN THE QUALITY

**A PRECISE BUSINESS CHOICE:  
QUALITY WITHOUT COMPROMISE.  
AND EVERYONE, FOR THEIR PART, IS RESPONSIBLE  
FOR AND INTERPRETER OF ZATOR QUALITY.  
THIS IS WHY EVERY PROJECT, EVERY COLLABORATION  
IS AN OPPORTUNITY TO UPGRADE PRODUCTS AND  
IMPROVE PROCESSES AT ALL COMPANY LEVELS.**

Our production chain is based on the most uncompromising Made in Italy: raw materials are selected, tested components, the latest machinery generation are the best world producers (Swiss, German, Japanese), equipment and tools precision are suitable to the more specific uses. Nothing comes left to improvisation or approximation. All the details are verified on test benches before being assembled.

We never want to give up to quality... and you?





# WE ARE A TEAM.

**YOUNG: THE AVERAGE AGE IS 45.  
CAPABLE: SPECIALIZATION IS TOTAL.  
AVAILABLE: FLEXIBILITY IS OUR STRONG POINT.**

We are ready to welcome innovations that technological evolution creates to translate them into effective solutions. The principles that inspire us are collaboration and responsibility: for us, every challenge is an opportunity to grow know-how. But above all, the satisfaction of those who choose us.

## THINGS WE BELIVE



work **IN SYNERGIE**



be **TRASPARENT**



be **COMPETENT**



be **INVENTIVE**



be **OPEN MINDED**

**WE GROW TO  
MAKE OUR  
CUSTOMERS GROWING**





## A TEAM THAT ASSISTS YOU BEFORE, DURING, AFTER

COLLABORATION WITH THE CUSTOMER IS COMPLETE. IN FACT, IN ADDITION TO ENSURE MAXIMUM AVAILABILITY ON EACH PROJECT, FOR ANY NEED PRE AND POST SALE, OUR TECHNICIANS ARE AT YOUR DISPOSAL WITH THE EXPERIENCE AND UPDATED SKILLS OF AN INTERNATIONAL TEAM.



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.

**WE ARE  
AN ITALIAN  
COMPANY  
WITH A GLOBAL  
VOCATION.  
WE HAVE ALWAYS  
BEEN PRESENT  
IN THE WORLD  
BOTH WITH  
PRODUCTS AND  
WITH  
THE TECHNICAL-  
COMMERCIAL  
NETWORK**

(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 machines
- | tobacco industry
- | assembly
- | cosmetics

### FLUID TYPES

- | adhesives and glues
- | inks
- | paint
- | 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

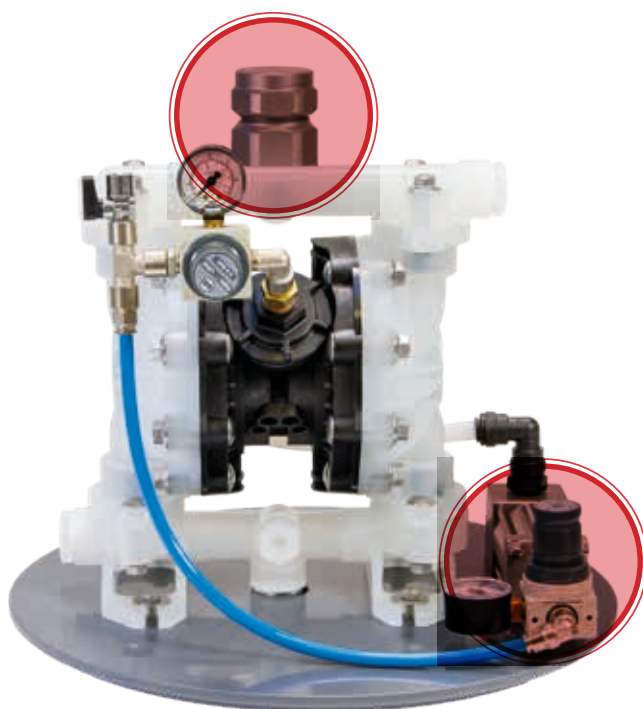
Pump ratio	1:1
Line air supply	max 6 bar
Working pressure	from 1 to 6 bar
Weight (tare)	10 Kg
Bucket capacity	28 liters

### 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.



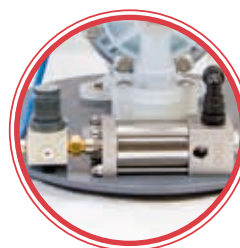
*Stainless steel filter with interchangeable cartridge*



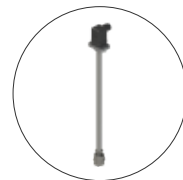
*Double diaphragm*



*Bottom valve with filter*



*Manual stainless steel pressure regulator*



*Float level sensor kit*

Available options



*Stand*

# 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*



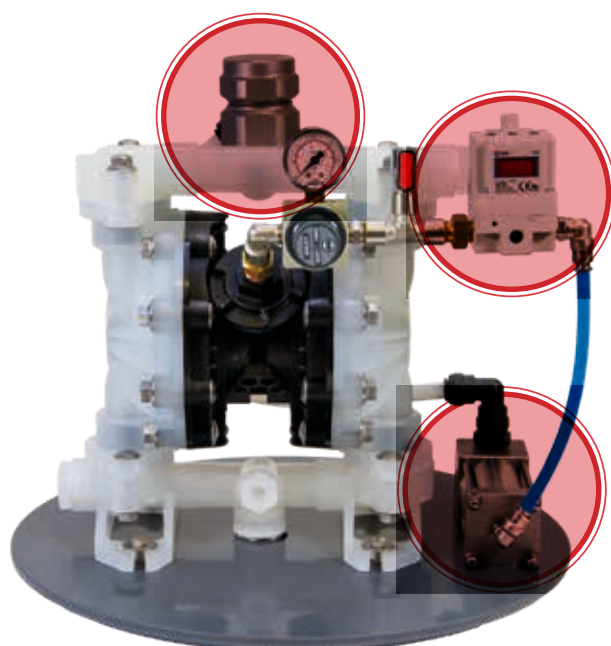
*Proportional valve*



*Automatic stainless steel pressure regulator*



*Bottom valve with filter*



*Double diaphragm*



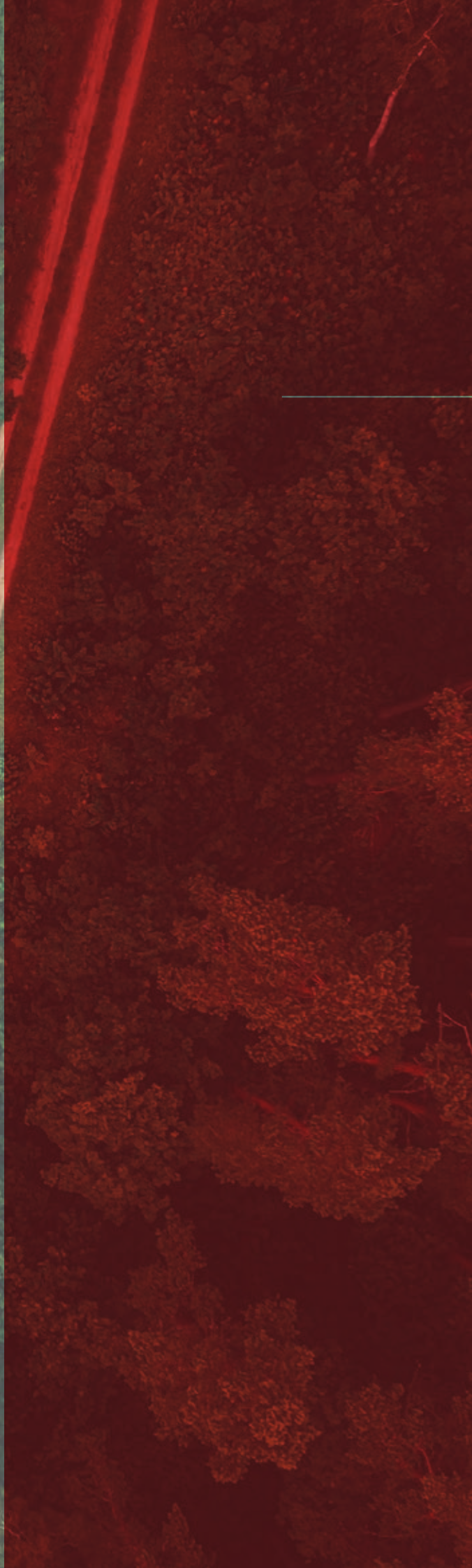
*Float level sensor kit*



*Stand*

Available  
optionals







## 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 machines
- | tobacco industry
- | assembly
- | cosmetics

### FLUID TYPES

- | adhesives and glues
- | greases
- | paint
- | 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.



## 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



## 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.



Bottom valve with filter



Stainless steel filter with interchangeable cartridge



Hinged flap lid



Float level sensor kit



Wall mount bracket



Stand

Available options



## 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.

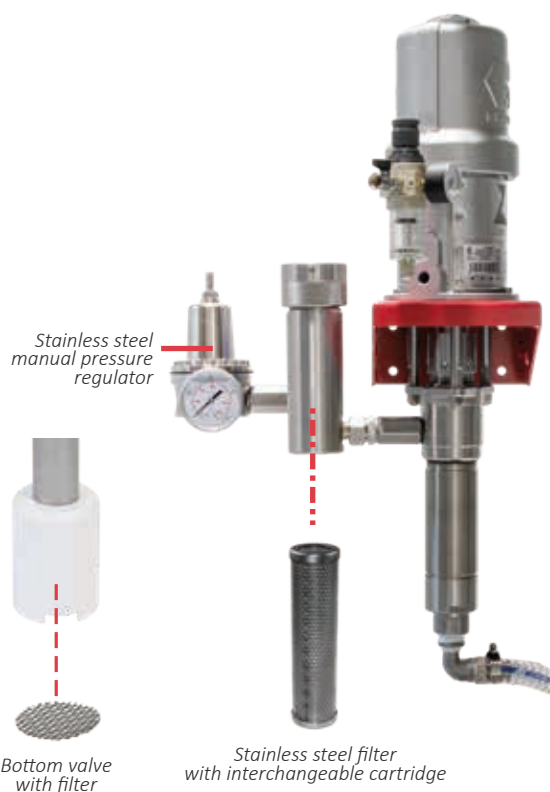
Upon request a float level sensor (optional) can be installed to indicate the minimum fluid level into the bucket.

### 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.



# 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.

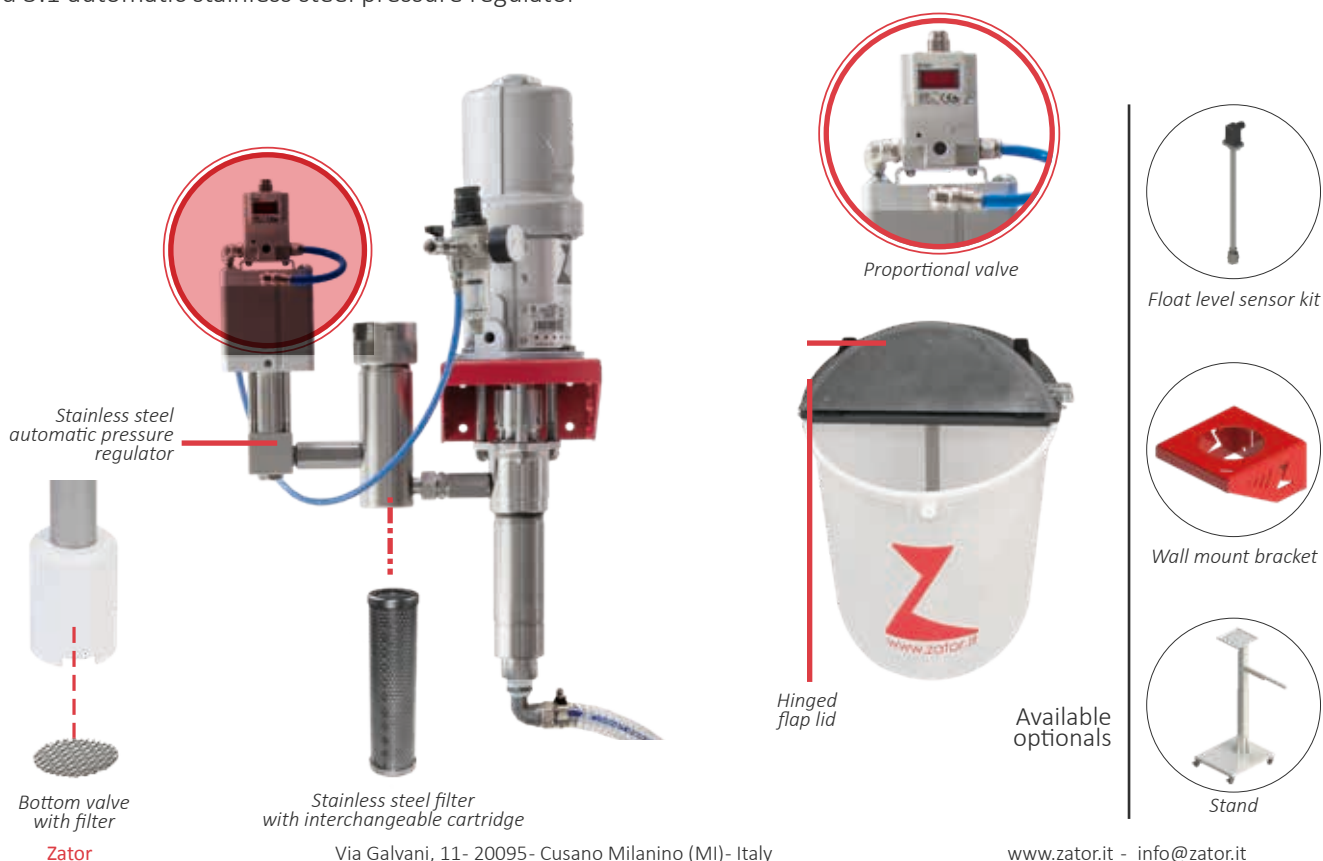
## technical data

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





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

## 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
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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
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## 18 LITERS

code	description
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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

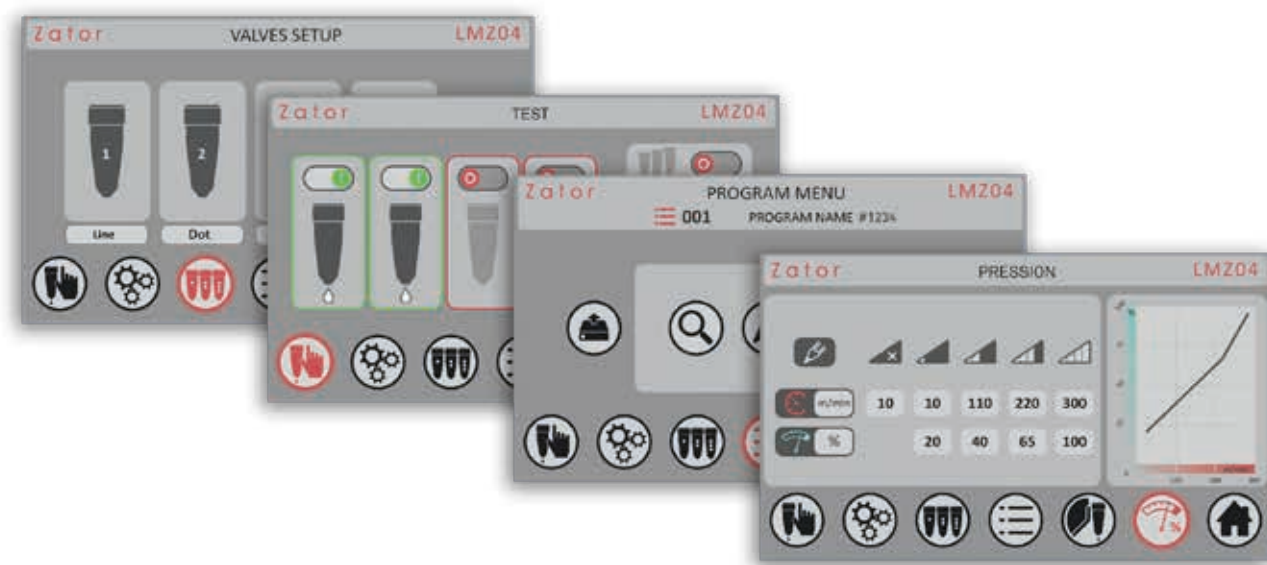
### WORKING MODELS

	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> <hr/> <p>Inputs:</p> <ul style="list-style-type: none"> <li>• 2 photocells, 1 encoder</li> <li>• 1 glue reset, 1 glue level sensor</li> </ul> <hr/> <p>Outputs:</p> <ul style="list-style-type: none"> <li>• 2 independent channels (valve)</li> <li>• 1 nozzle shutter</li> <li>• 1 proportional valve control (0-20 mA)</li> <li>• 1 level glue output</li> <li>• 2 optional free output</li> </ul>



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> <hr/> <p>Inputs:</p> <ul style="list-style-type: none"> <li>• 4 photocells, 1 encoder</li> <li>• 1 glue reset, 1 glue level sensor</li> </ul> <hr/> <p>Outputs:</p> <ul style="list-style-type: none"> <li>• 4 independent channels (valve)</li> <li>• 1 nozzle shutter</li> <li>• 1 proportional valve control (0-20 mA)</li> <li>• 1 level glue output</li> <li>• 2 optional free output</li> </ul>



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

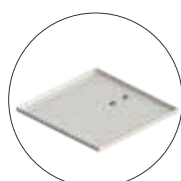
code	description
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KCN001520	LMZ02 standard kit connectors
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KCN001540	LMZ04 standard kit connectors
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Stand



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



# LMZR

code	description
LMZ04R	<ul style="list-style-type: none"> <li>Remote control panel with 7" Touch screen TFT- 800x480 and electrical box</li> <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 modes: encoder or timer mode</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
LMZ08R	<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:

- 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> <p>Inputs:</p> <ul style="list-style-type: none"> <li>8 photocells, 1 encoder</li> <li>1 glue reset, 1 glue level sensor</li> </ul> <p>Outputs:</p> <ul style="list-style-type: none"> <li>16 independent channels (valve)</li> <li>1 nozzle shutter</li> <li>1 proportional valve control (0-20 mA)</li> <li>1 level glue output</li> <li>2 optional free output</li> </ul>



### additional hardware available

code	description
HRD00100	WI-FI router connection 

### available optionals

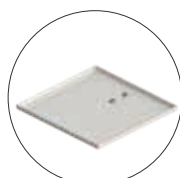
code	description
KCN001540	LMZ04R standard kit connectors
KCN001580	LMZ08R standard kit connectors
KCN0015G0	LMZ16R standard kit connectors



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 machine
- | tobacco industry
- | assembly
- | food industry

### FLUID TYPES

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

### APPLICATION TYPES

- | dots
- | dots and lines
- | spray

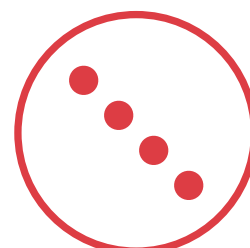
# DLK16

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.



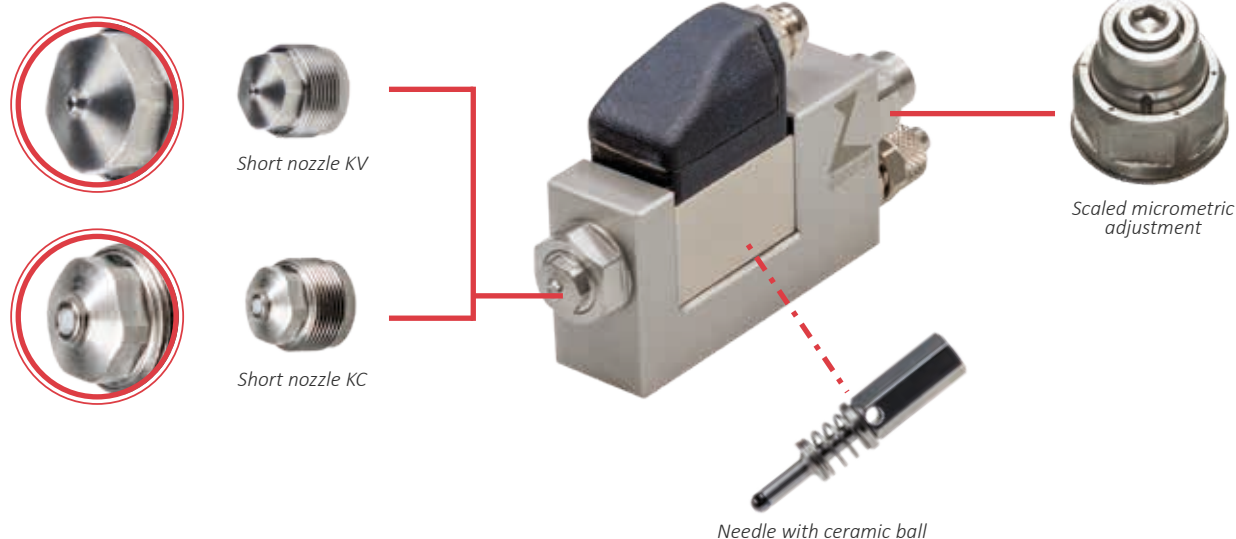
Dots

## 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.

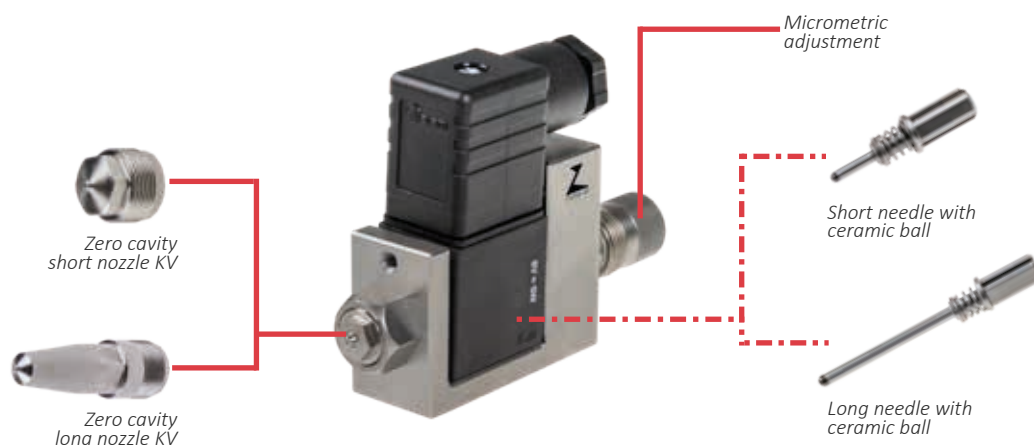


Dots and lines

### 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
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>	

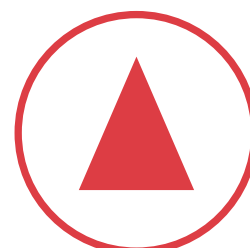


## DLK22S

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.



Spray

### 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*

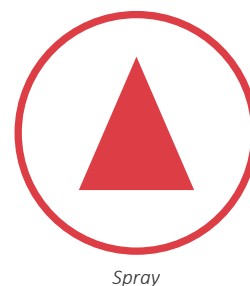




## VLK22S

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.



Spray

### 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 flat 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.



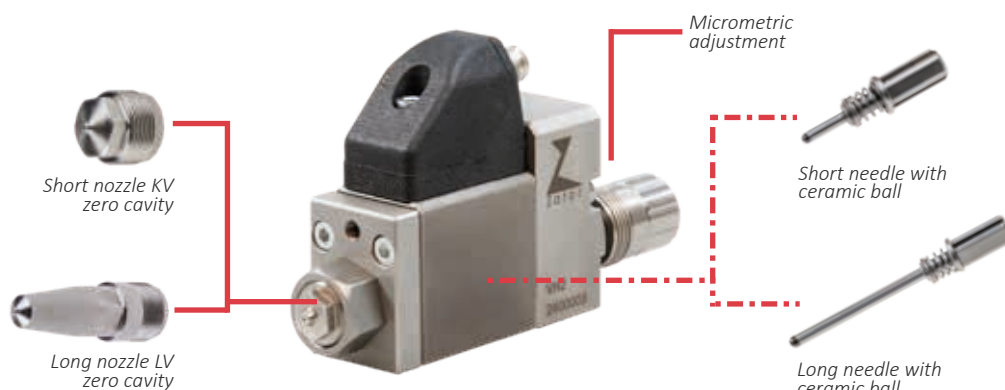
Dots and lines

### technical data

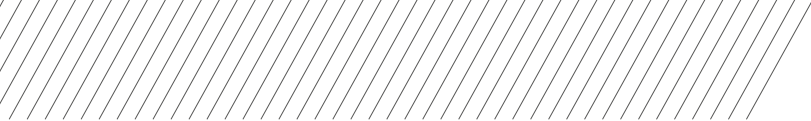
Available nozzle diameters	from 0,30 to 1,50 mm
Valve body	stainless steel
Maximum fluid viscosity	~ 3000 mPass
Maximum working pressure	35 bar
Maximum working frequency	500 dots/sec.
Coil	6, 12 or 24 Volt
Weight	330 g

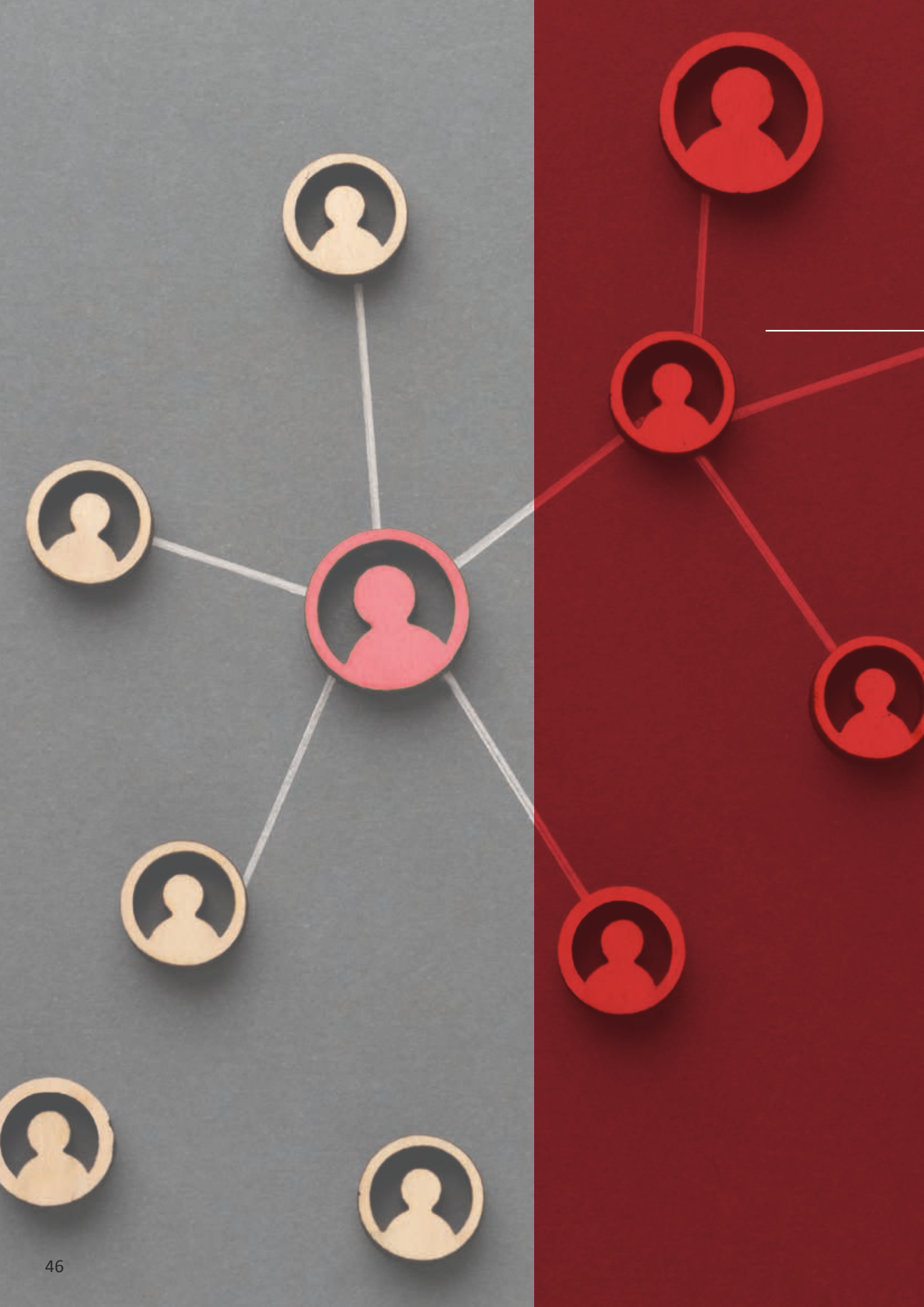
code	description
EH01C01XXX	Electromagnetic valve VH2LV 24 Volt
EG01C01XXX	Electromagnetic valve VH2LV 12 Volt
EF01C01XXX	Electromagnetic valve VH2LV 6 Volt
<i>Replace XXX value with nozzle diameter desired Available nozzle diameters from 0,30 to 1,50 mm</i>	
EH02C01XXX	Electromagnetic valve VH2KV 24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

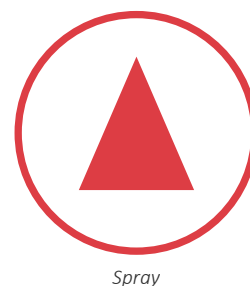
- | spray
- | spray 360°

# 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



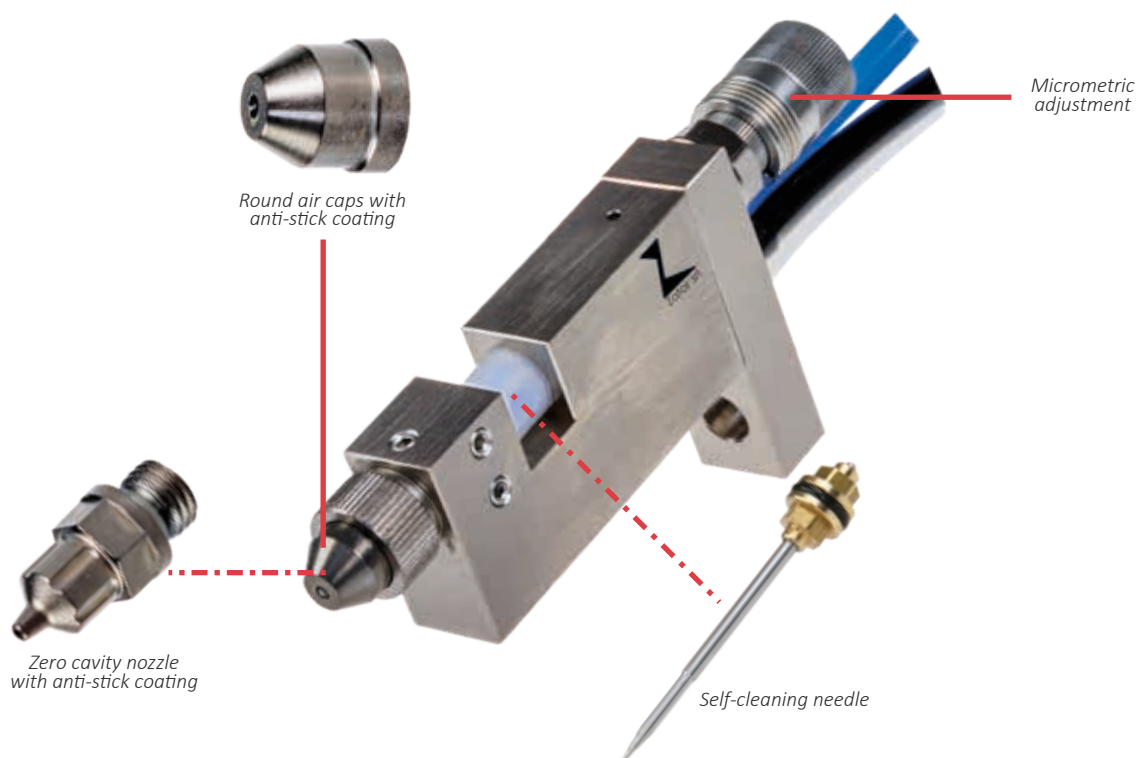
## code

## description

MMZF01XXRM

Spray valve MMZF XX  
round cap

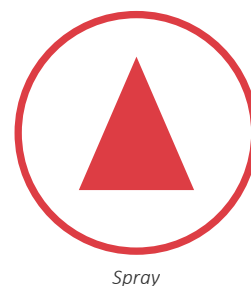
*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,5 - 0,8 - 1,0 - 1,5 mm*



## MF1

Spray valve for low viscosity glues, adhesives and fluids, its design make it suitable for every application requiring the use of spray valves.

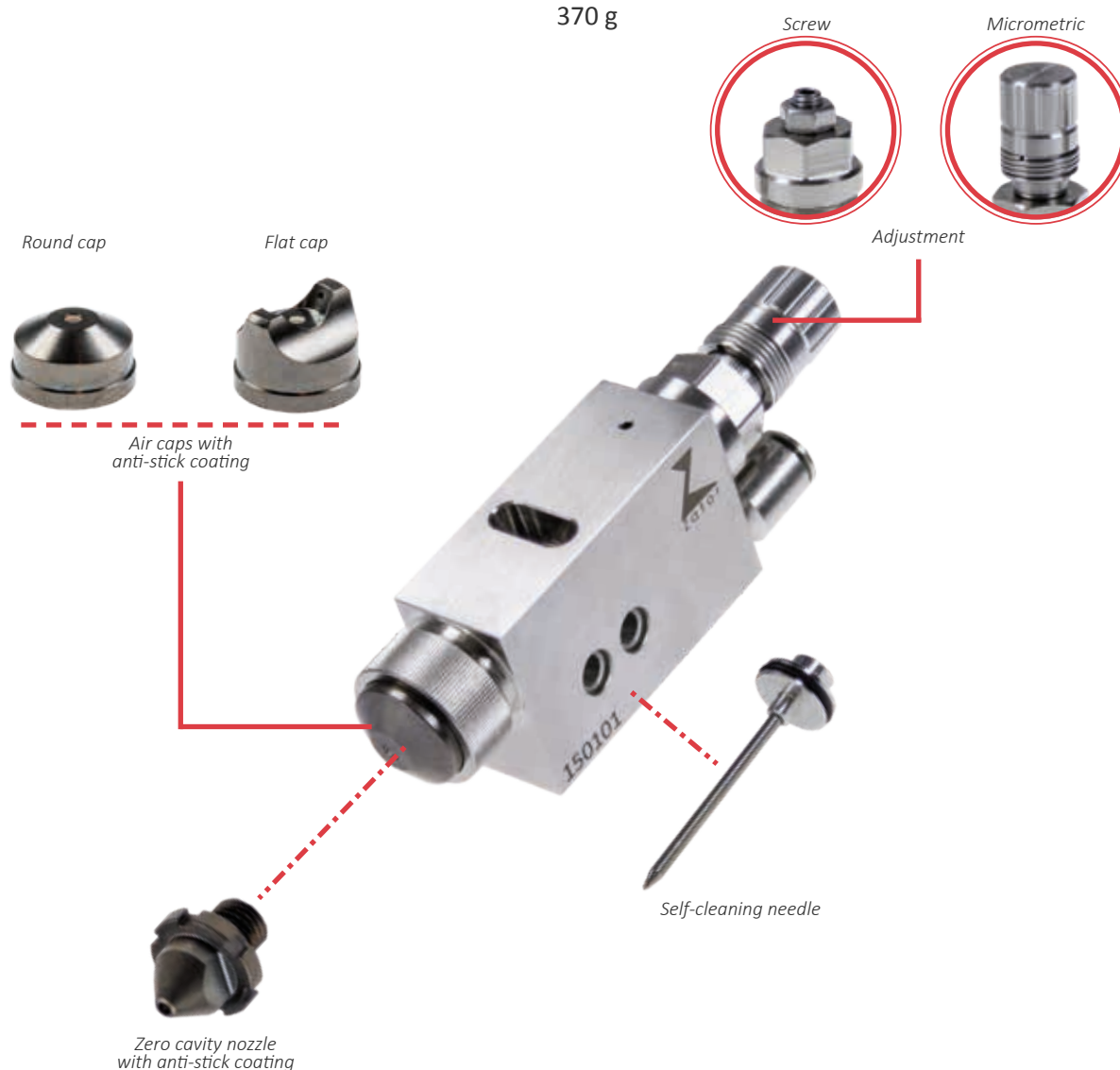
The valve is pneumatically controlled by external solenoid valves, sturdy and compact sized, it has the peculiarity of nozzle and the cap with non-stick coating. Available with screw or micrometric adjustment, with round or oval cap and in different nozzles diameters, the micrometric adjustment allows a fine tuning of the dispensed fluid quantity.



*Spray*

### 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  <i>Replace XX value with nozzle diameter desired</i> <i>Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>



code	description
MF3FB00XX0	Spray valve MF1NR flat cap  <i>Replace XX value with nozzle diameter desired</i> <i>Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>



code	description
MF3RC00XX0	Spray valve MF1RM round cap  <i>Replace XX value with nozzle diameter desired</i> <i>Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>



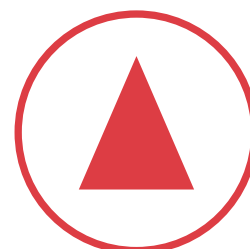
code	description
MF3FC00XX0	Spray valve MF1RM flat cap  <i>Replace XX value with nozzle diameter desired</i> <i>Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>



## MZS

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*





code	description
C3451XX00	Spray valve MZS1XXSRRM round cap 24 V
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>	



code	description
C3454XX00	Spray valve MZS1XXSFRM flat cap 24 V
<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm</i>	



## available optionals

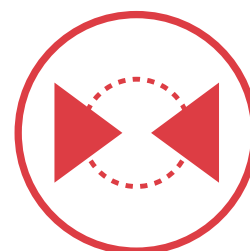
code	description
PDG00100	Nebulization air control unit

## 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*

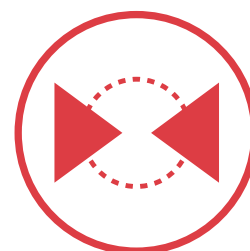
*Available extension lengths from 20 up to 200 mm*

## 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



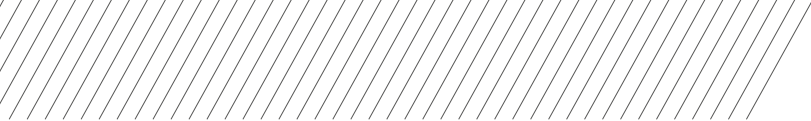
*End-part for 360 degrees spray application*



*Micrometric adjustment*

*Available extension lengths from 20 up to 200 mm*







# 5

## ELECTROPNEUMATIC EXTRUSION VALVES

MZD - MV1 - MK1 - M250 - MZB200 - 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
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*Replace XX value with nozzle diameter desired  
Available nozzle diameters from 0,3 to 1,5 mm*



code	description
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ZD07C02018	Extrusion valve MZD10018 24 Volt
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code	description
------	-------------

ZD06C02001	Extrusion valve MZD100MG 24 Volt
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code	description
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ZD04C02XX0	Extrusion valve MZD1XXKL 10 mm 24 Volt
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ZD05C02XX0	Extrusion valve MZD1XXKL 7 mm 24 Volt
------------	--

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



code	description
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ZD09C02005	Extrusion valve MZD100SY 24 Volt
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# MV1

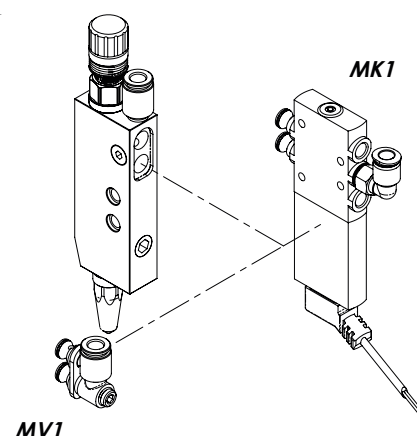
The extrusion valve MV1 is a dispenser of glues , adhesives and fluids, from low to high viscosity. Designed to be used on a variety of machines, is a pneumatically triggered, single or double acting, compact valve. Has a tungsten carbide needle, the main body is machined from solid metal with non-stick 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
MV02B00XX0	Extrusion valve MV1KVNR screw adjustment

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



code	description
MV02C00XX0	Extrusion valve MV1KVRM micrometric adjustment

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



code	description
MV01B00XX0	Extrusion valve MV1LVNR screw adjustment

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



code	description
MV01C00XX0	Extrusion valve MV1LVRM micrometric adjustment

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



code	description
MV04B00XX0	Extrusion valve MV1KL7NR screw adjustment

MV05B00XX0	Extrusion valve MV1KL10NR screw adjustment
------------	---

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



code	description
MV04C00XX0	Extrusion valve MV1KL7RM micrometric adjustment

MV05C00XX0	Extrusion valve MV1KL10RM micrometric adjustment
------------	---

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





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

MV09B00150	Extrusion valveMV1SYNR screw adjustment
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code	description
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MV09C00150	Extrusion valve MV1SYRM micrometric adjustment
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code	description
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MV07B00200	Extrusion valve MV118NR screw adjustment
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code	description
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MV07C00200	Extrusion valve MV118RM micrometric adjustment
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code	description
------	-------------

MV06B00200	Extrusion valve MV1MGNR screw adjustment
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code	description
------	-------------

MV06C00200	Extrusion valve MV1MGRM micrometric adjustment
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## 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.

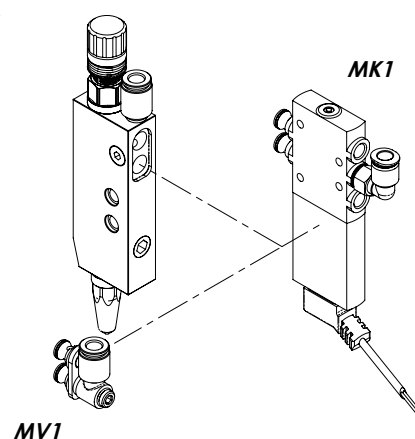
Both solutions are compatible and interchangeable even after purchase.



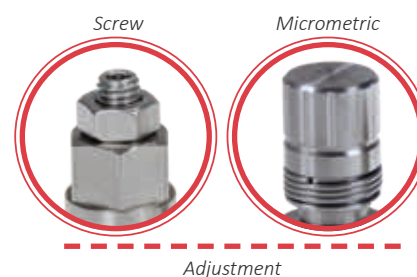
Dots and lines

### technical data

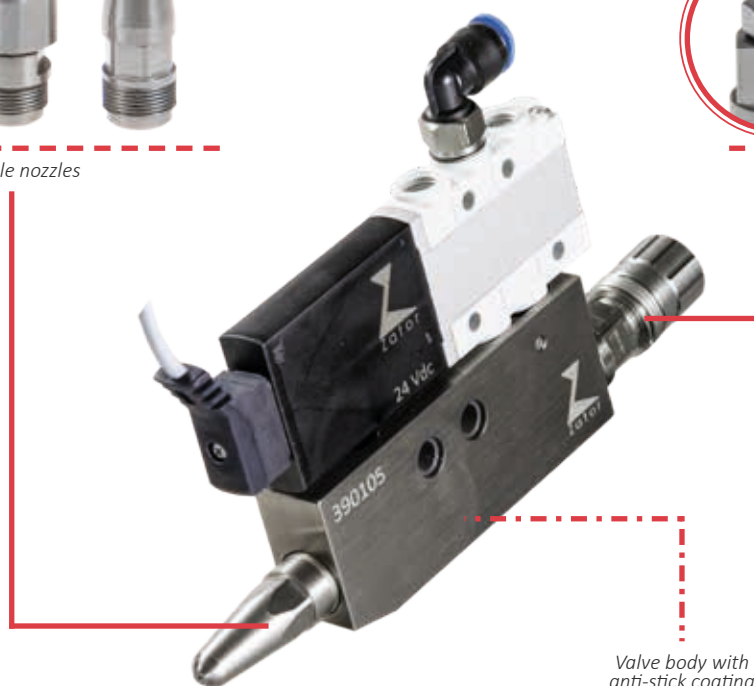
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	80 bar
Coil	24V
Maximum working frequency	80 dots/sec.
Weight	380 g



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 micrometric adjustment
------------	---

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
------------	---

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

MK09C00150	Extrusion valve MK1SYRM micrometric adjustment
------------	---

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

MK06B00200	Extrusion valve MK1MGNR screw adjustment
------------	---

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

MK06C00200	Extrusion valve MK1MGRM micrometric adjustment
------------	---





## 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.

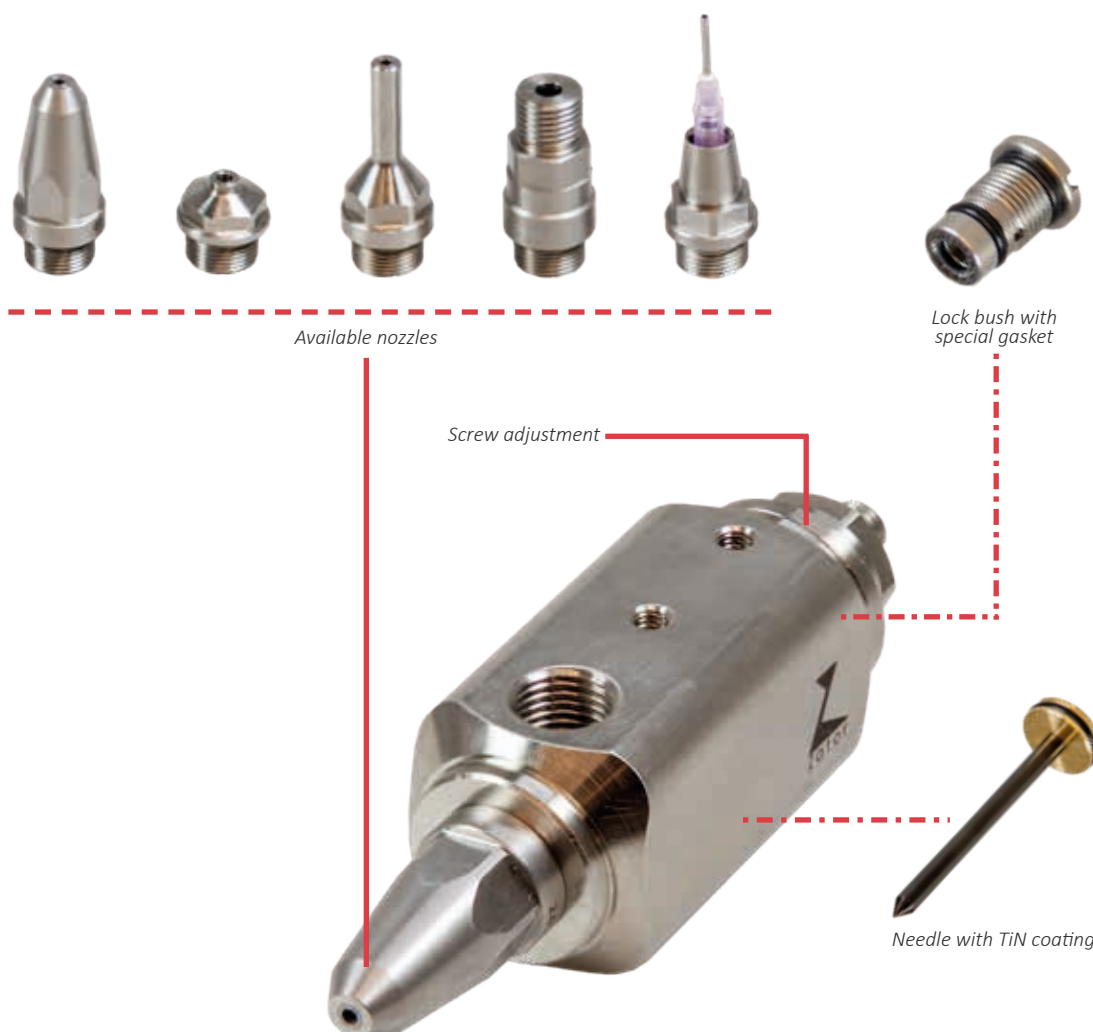
A wide range of stainless steel nozzles is available for every application needs.



*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 MZB12XXKL 15 mm
------------	------------------------------------

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
------------	-----------------------------



## MZK

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

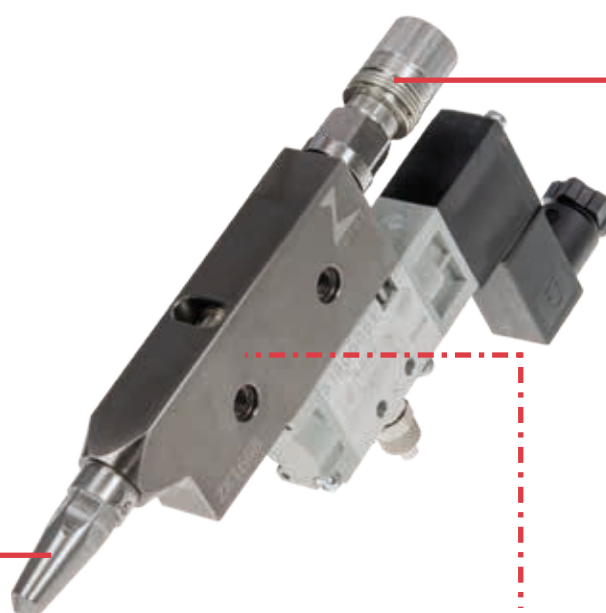
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	min. 5 bar
Drive type	double action
Maximum working pressure	80 bar
Maximum working frequency	20 dots/sec.
Coil	24 Volt
Weight	330 g



*Available nozzles*

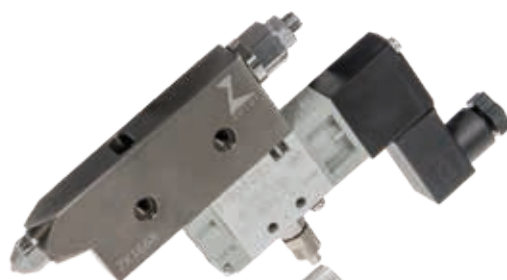


*Adjustment*



*Valve body with anti-stick coating*

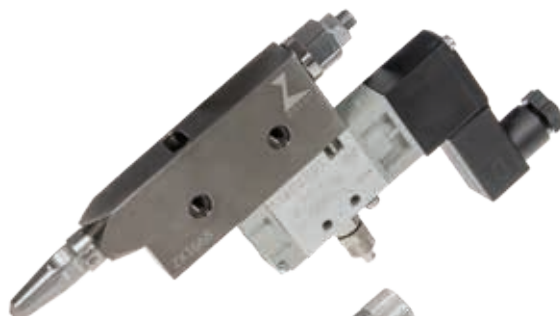
code	description
C3251XX00	Extrusion valve MZK4XXKVNR 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



code	description
C3261XX00	Extrusion valve MZK4XXKVRM 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



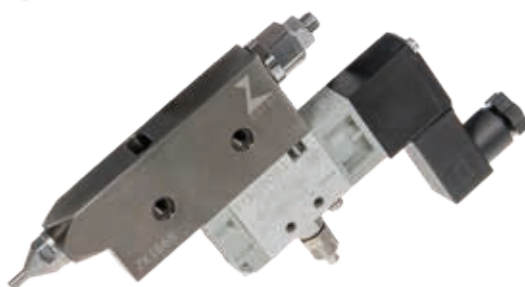
code	description
C3254XX00	Extrusion valve MZK4XXLVNR 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



code	description
C3264XX00	Extrusion valve MZK4XXLVRM 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



code	description
C3251XX01	Extrusion valve MZK4XXKLNR 7 mm 24 Volt
C3251XX02	Extrusion valve MZK4XXKLNR 10 mm 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,5 to 1,5 mm</i>



code	description
C3261XX01	Extrusion valve MZK4XXKLRM 7 mm 24 Volt
C3261XX02	Extrusion valve MZK4XXKLRM 10 mm 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,5 to 1,5 mm</i>



**code****description**

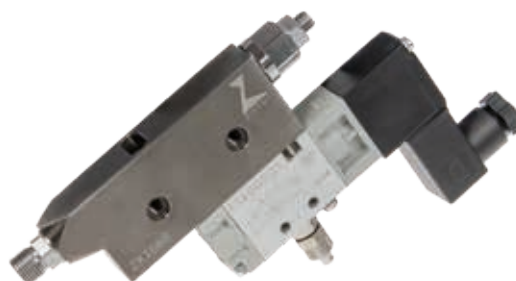
C32510005 Extrusion valve  
MZK400SYNR 24 Volt

**code****description**

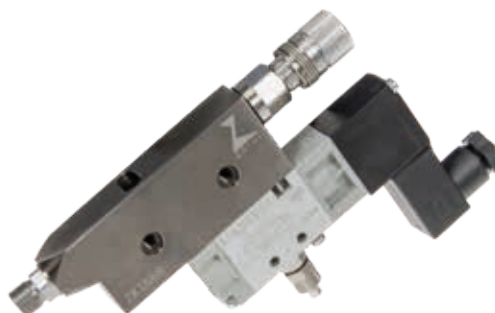
C32610005 Extrusion valve  
MZK400SYRM 24 Volt

**code****description**

C32510018 Extrusion valve  
MZK40018NR 24 Volt

**code****description**

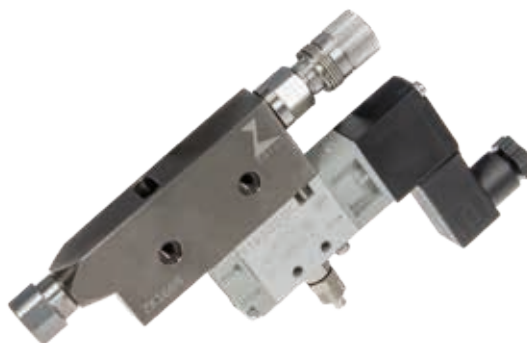
C32610018 Extrusion valve  
MZK40018RM 24 Volt

**code****description**

C32510006 Extrusion valve  
MZK400MGNR 24 Volt

**code****description**

C32610006 Extrusion valve  
MZK400MGRM 24 Volt



# SB

The pneumatic 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	640 g

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



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

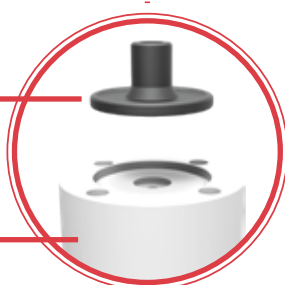
*Set-up for quick connection of  
slim dosing needle*

*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

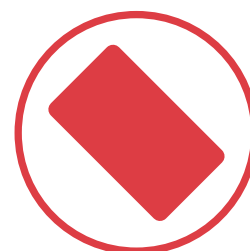
- | coating

# 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

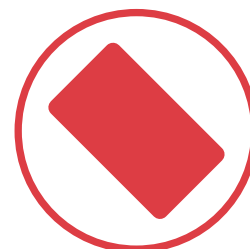
Micrometric  
adjustment

Valve body with  
anti-stick coating

## SPL

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	1900 g

### code

### description

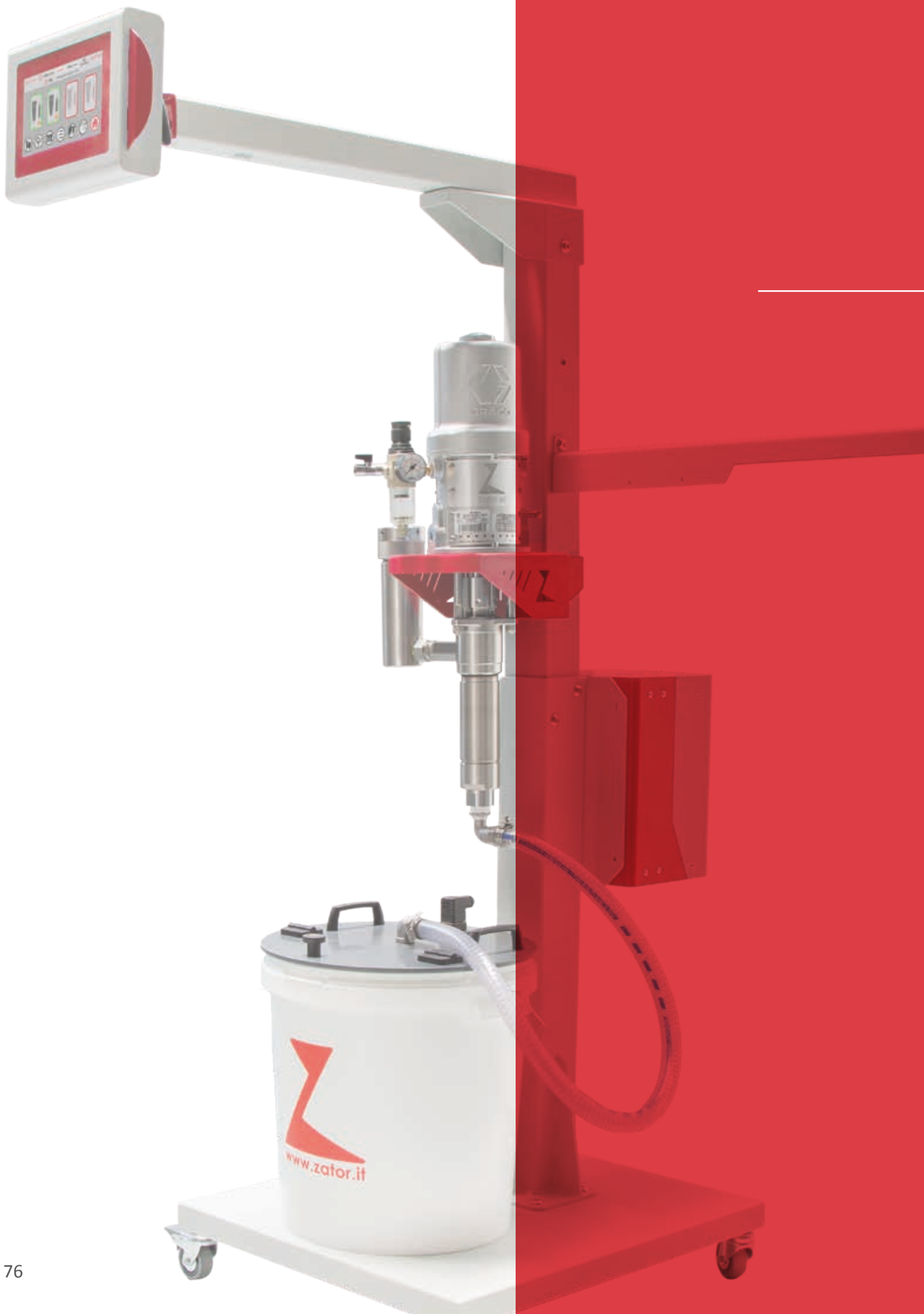
SPL000100

Pneumatic coating valve SPL  
coating width up to 100 mm



Stainless steel coating head







# STAND

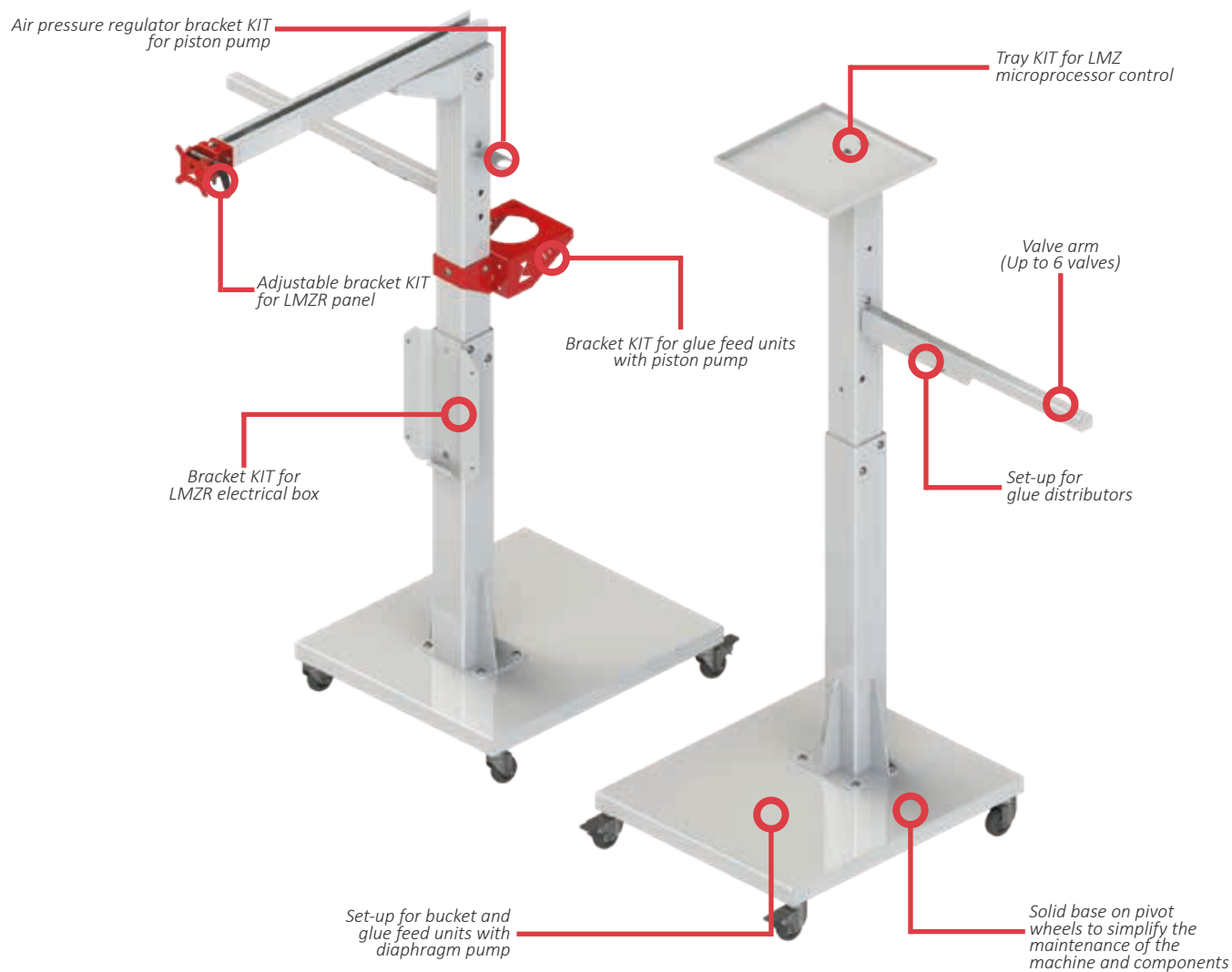
optionals and spare parts

## OPTIONALS AND SPARE PARTS

- | stand and brackets for diaphragm and piston pumps
- | brackets for control panel and microprocessor control
- | level controls

## STAND STN SERIES

The stand of STN series has been designed specifically to adapt and integrate with the most folder-gluer machines and similar machines, giving a solid, safe and handy bracket system for adhesive, glue and fluid application components. The STN series can be equipped with different KIT available for the customer.



### expandable arm

Cod. BRC00200



## base kit

code	description
STN00100	Standard stand kit

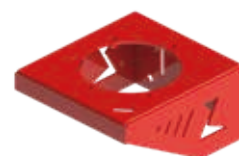


## additional kit

code	description
TRY00100	Tray kit for stand STN00100
TRY00200	Tray kit for arm BRC00100
BRC001330	Tray for LMZ microprocessor control



code	description
BRC00400	5:1 piston pump bracket kit for stand STN00100
SP20001	5:1 piston pump wall mount bracket
BRK001050	2:1 piston pump bracket kit for stand STN00100
BRK001051	2:1 piston pump wall mount bracket



code	description
BRC00600	Air pressure regulator bracket kit



code	description
BRC00300	Adjustable bracket kit for remote control panel





code	description
BRC00100	Fixed arm kit for STN00100 Total length 680mm



code	description
BRC00150	Expandable arm kit for STN00100 Total length from 950 to 1530mm



code	description
BRC00200	Expandable arm kit with L support for remote control panel Total length from 950 to 1530mm

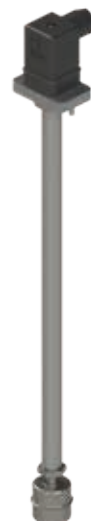


code	description
BRC00500	Bracket kit for LMZ04R electrical box
BRC00510	Bracket kit for LMZ08R electrical box



## LEVEL CONTROLS

code	description
A19910000	Float level sensor kit
KCN001435	Level signal lamp kit with 5m cable
KCN001445	Level signal lamp kit with bracket and 5m cable







# APPLICATIONS

examples

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

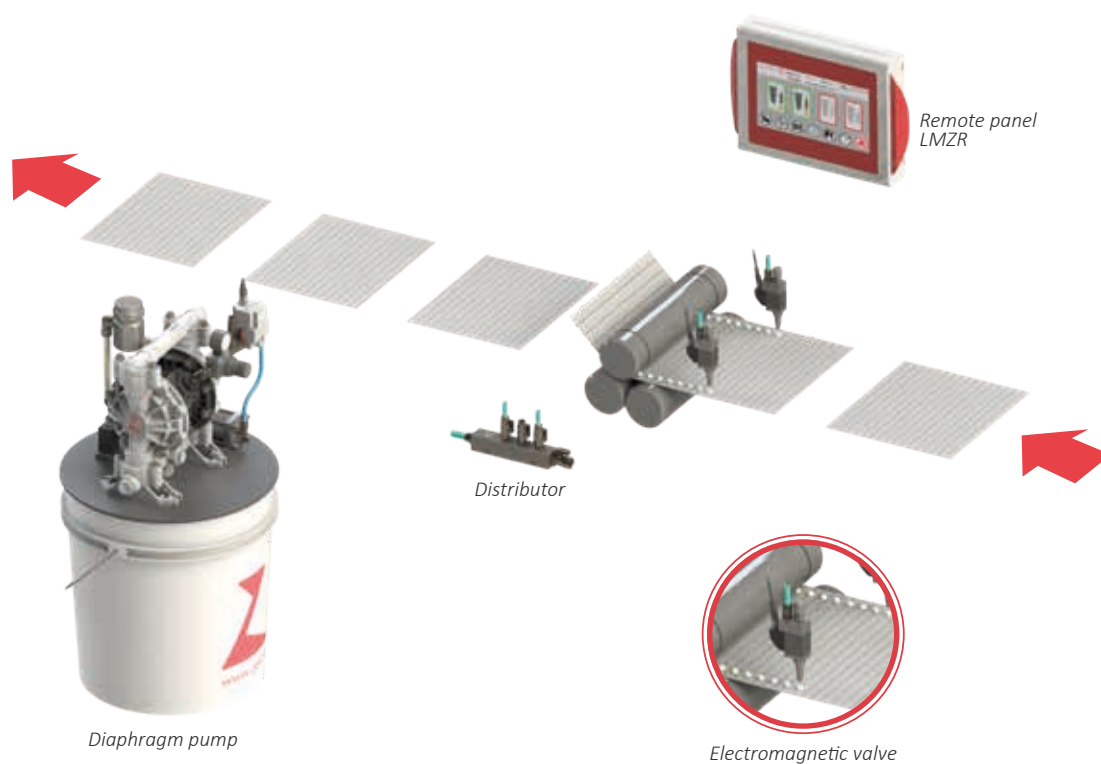
Thanks to our wide experience we are able to find the most suitable technical solution for your application field needs.

## 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

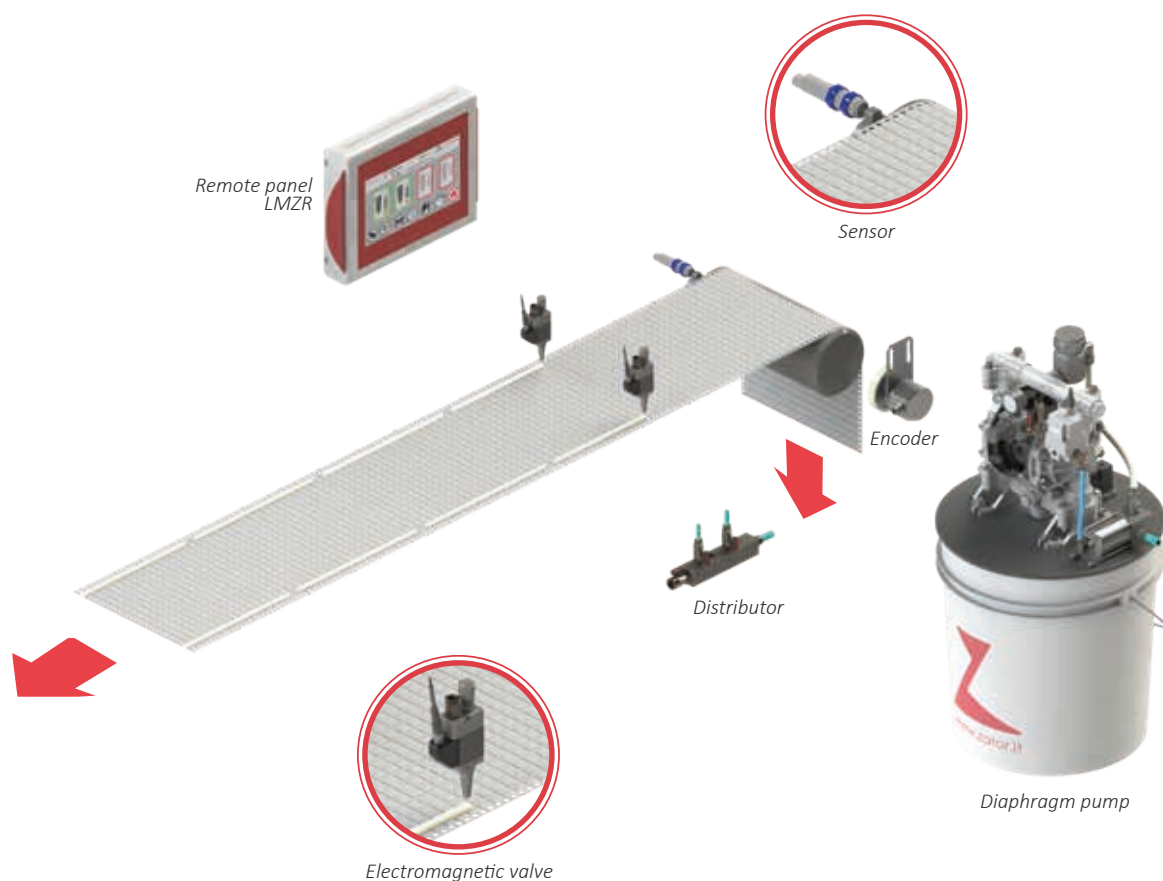
This implant is usually adopted for the application of glue on an automated system, in this case, “mailing” type. The control with remote panel LMZR, paired with encoder, allows to calibrate and synchronize, accurately the application of glue dots disbursed by the VH2 valve on the envelope, before folding.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



## COLLATOR MACHINE

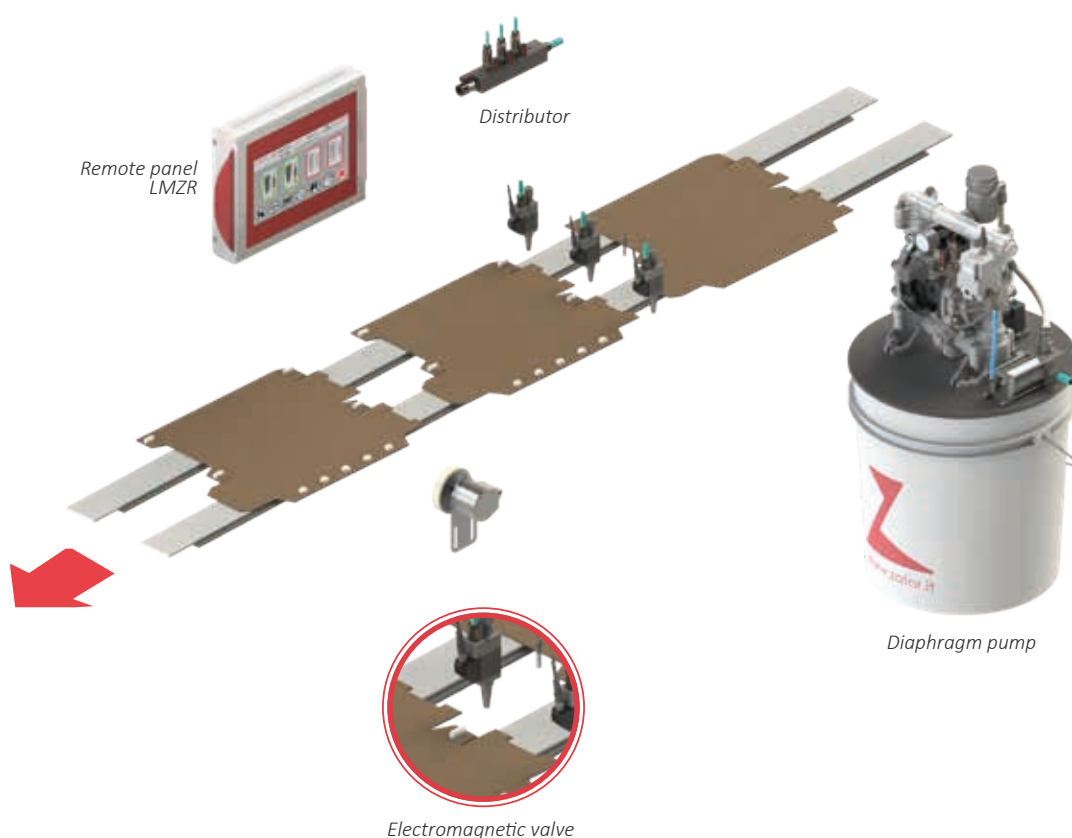
The continuous glue application require a precise dosing system, dispensing must adapt to different implant speed.

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.



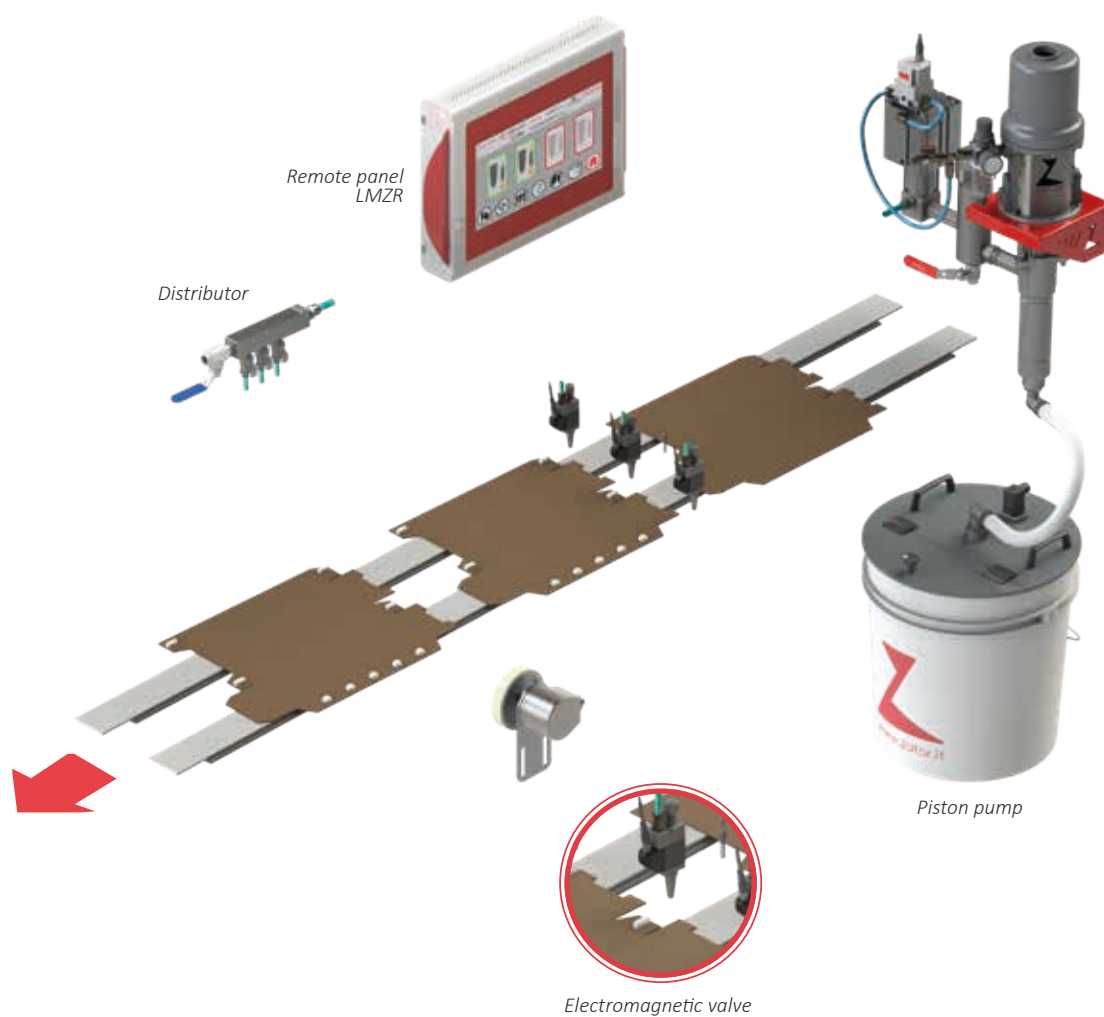
## FOLDER GLUER MACHINE low pressure

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

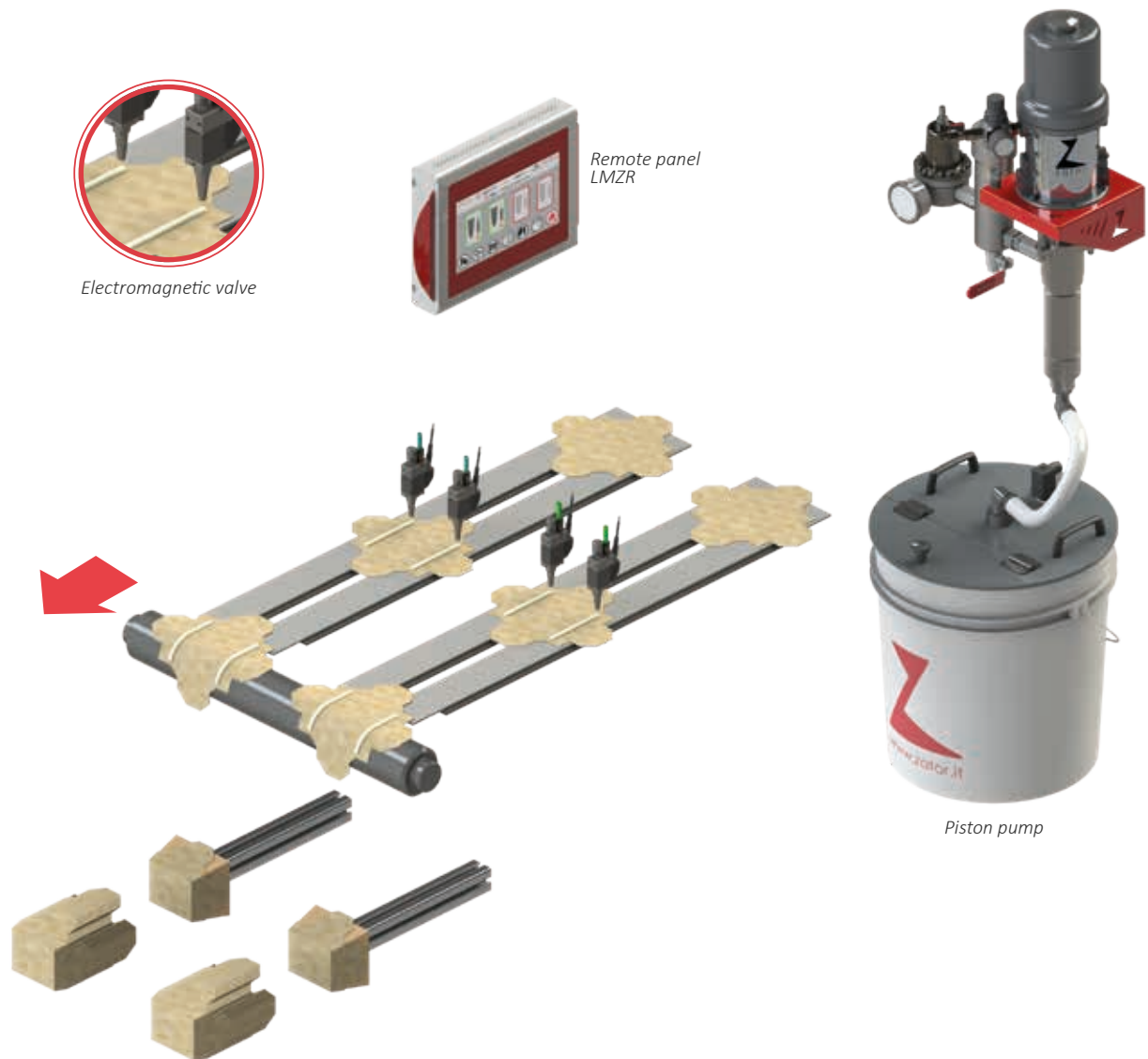
Using a piston pump allows for medium viscosity glues to be used in a folder-gluer machine, like the previous example, this system can be integrated on any type of folder-gluer machine or similar, even in case of older equipment revision.



# TRAYFORMER

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

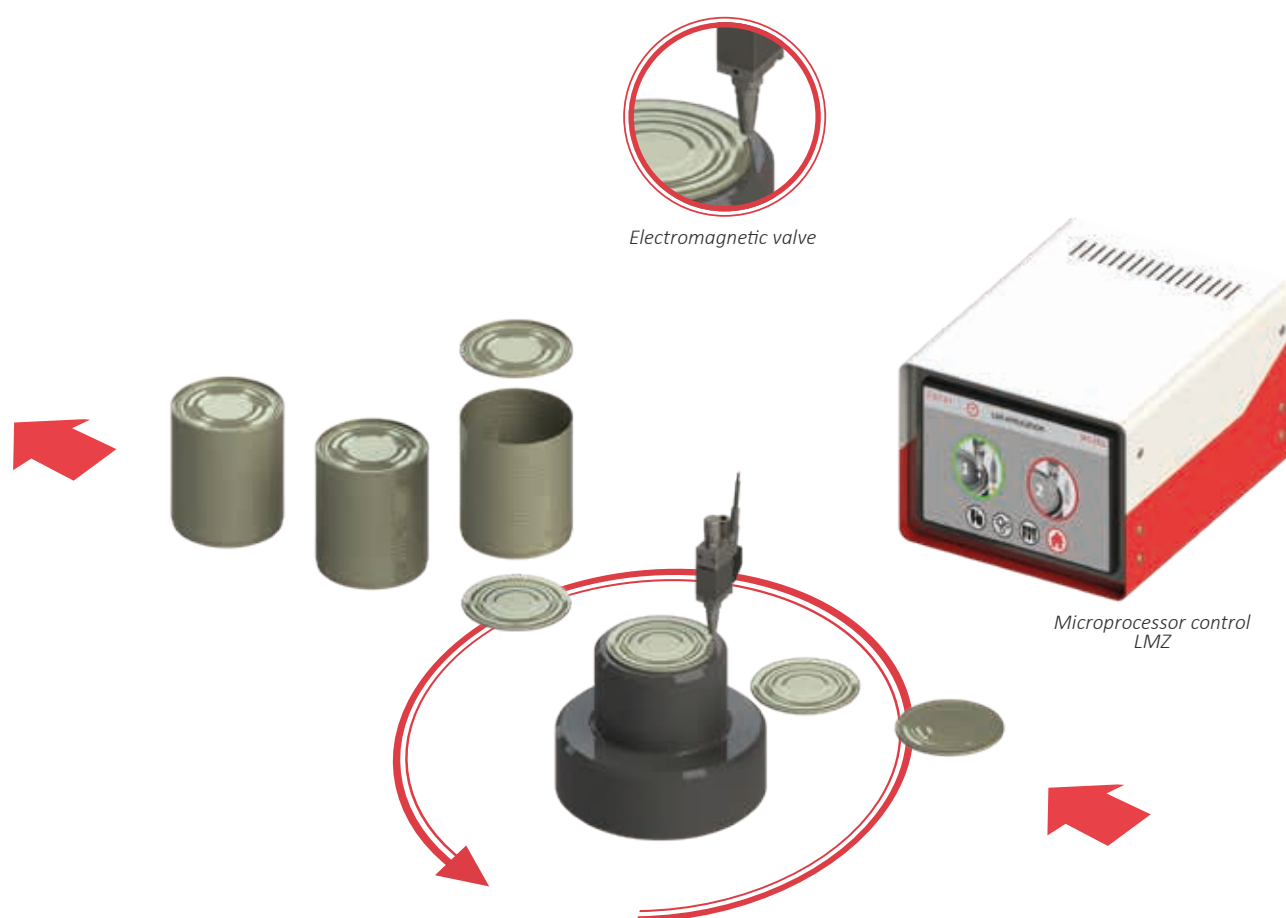
The entire process can be automated by using LMZR control with remote panel and sped up with Zator electromagnetic valves.





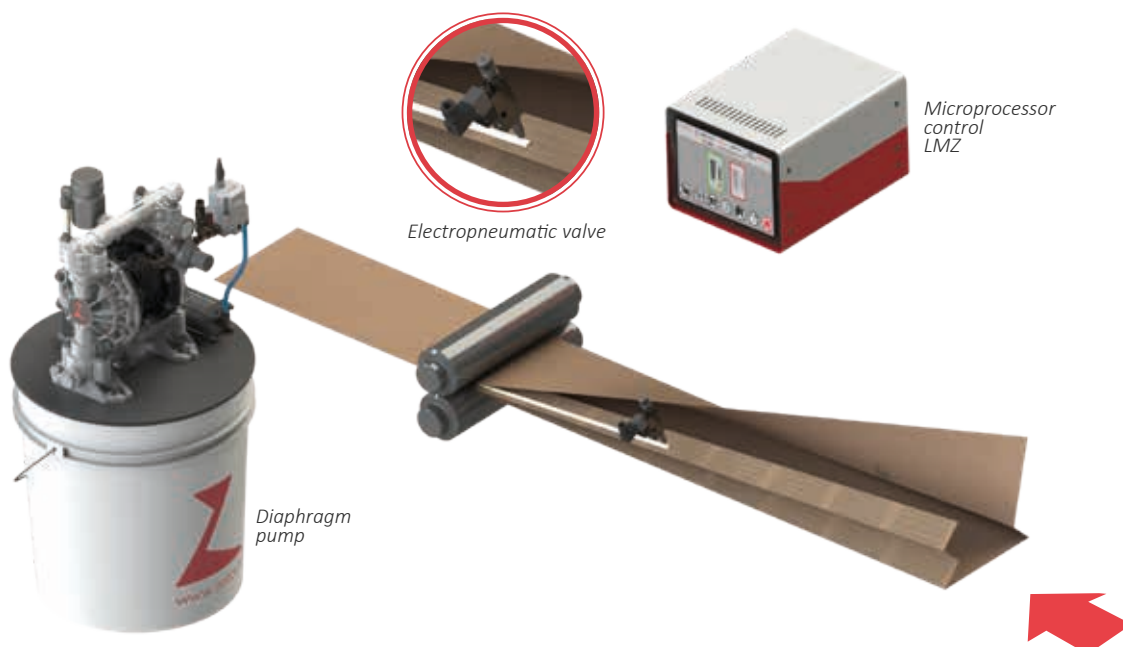
## CAN LIDS

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.



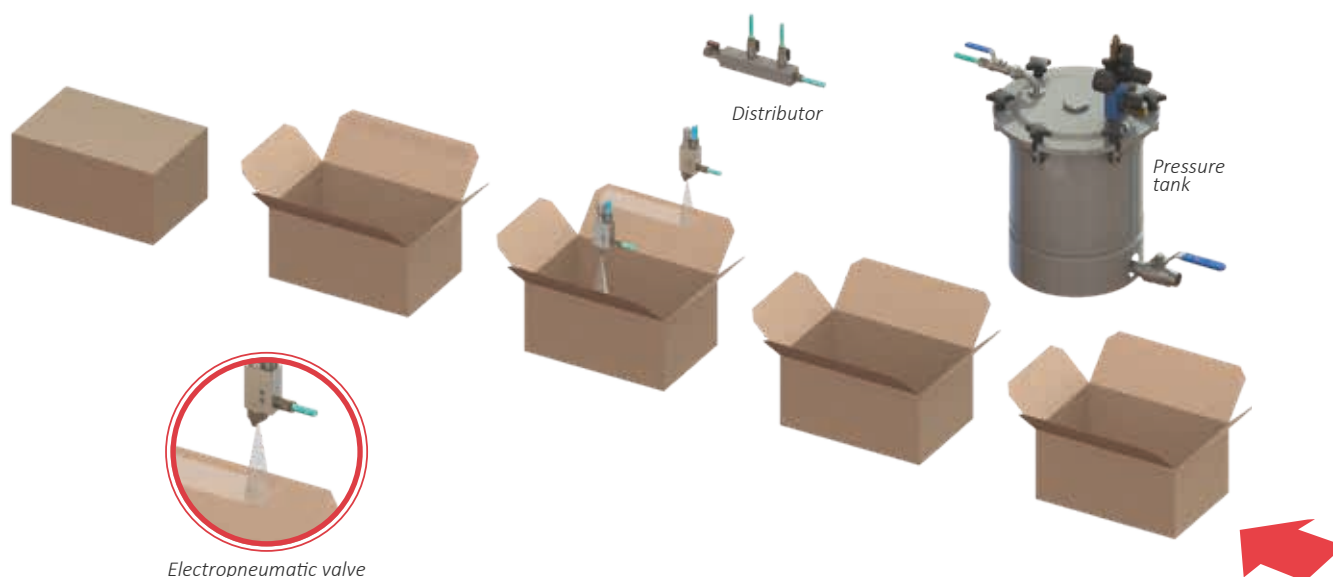
## PAPER BAG

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.



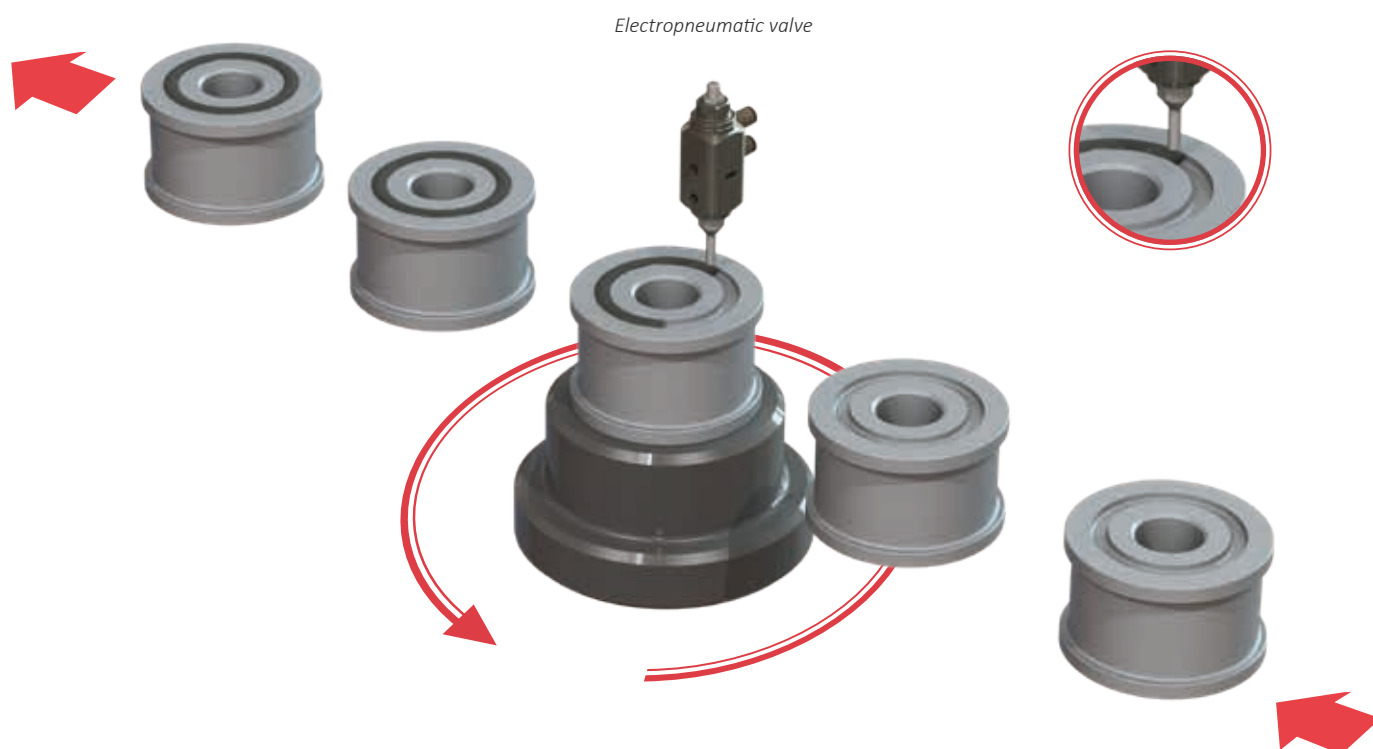
## SPRAY

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

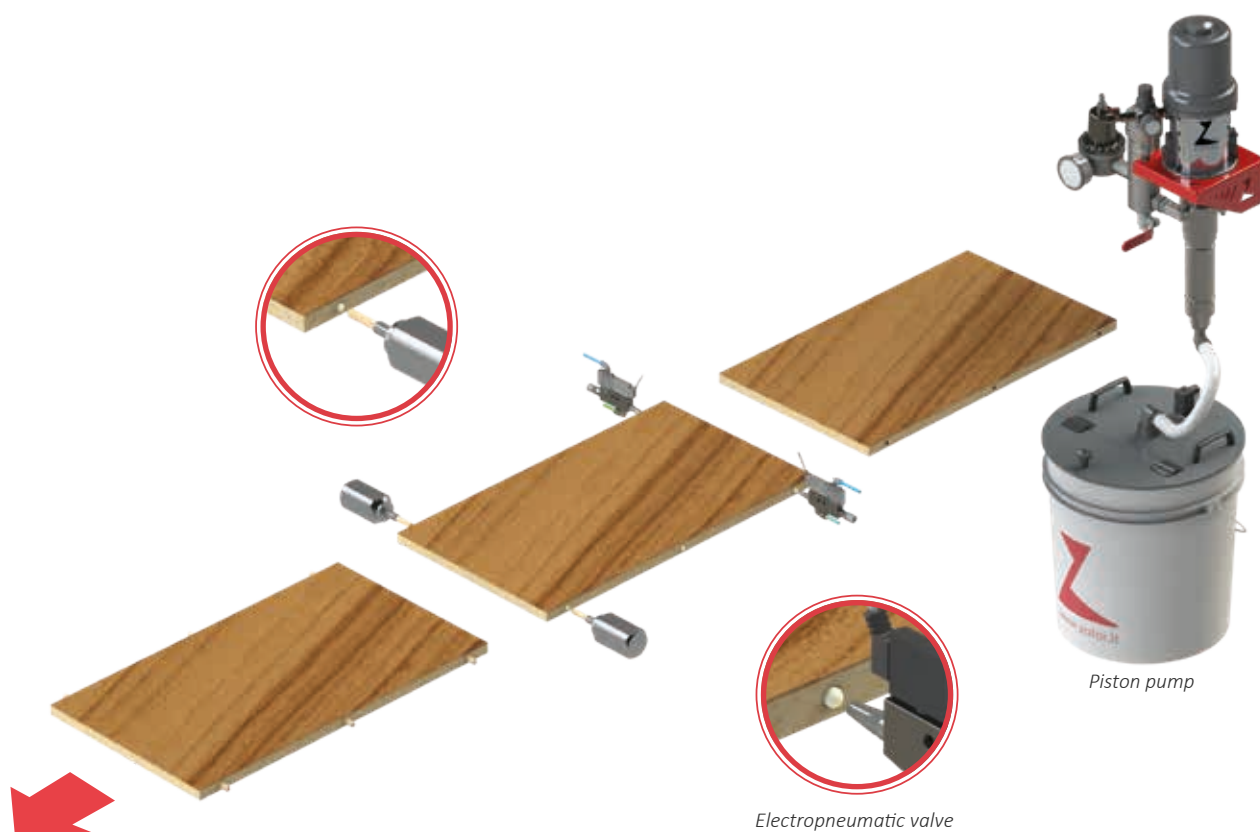
If using a standard gasket is not possible or, for technical necessities, a non removable gasket is needed, the pneumatic valve allows the accurate dispensing of an high amount of medium/high viscosity products, like mastics, silicones, resins and other fluids, in an automated way.



## 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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