

Automation



Innovative Vacuum for Automation Operating Instructions VES-***-B

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Note

The Operating instructions were originally written in German. Store in a safe place for future reference. Subject to technical changes without notice. No responsibility is taken for printing or other types of errors.

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1 Important Information

1.1 Note on Using this Document

Camozzi Automation spa is generally referred to as Camozzi in this document. The document contains important notes and information about the different operating phases of the product:

- Transport, storage, start of operations and decommissioning
- Safe operation, required maintenance, rectification of any faults

The document describes the product at the time of delivery by Camozzi and is aimed at:

- Installers who are trained in handling the product and can operate and install it
- Technically trained service personnel performing the maintenance work
- Technically trained persons who work on electrical equipment

1.2 The technical documentation is part of the product

- 1. For problem-free and safe operation, follow the instructions in the documents.
- 2. Keep the technical documentation in close proximity to the product. The documentation must be accessible to personnel at all times.
- 3. Pass on the technical documentation to subsequent users.
- ⇒ Failure to follow the instructions in these Operating instructions may result in injuries!
- ⇒ Camozzi is not liable for damage or malfunctions that result from failure to heed these instructions.

If you still have questions after reading the technical documentation, contact Camozzi Service at: service@camozzi.com

1.3 Type Plate

The type plate (1) is permanently attached to the product and must always be clearly legible.

Type plate (1) contains the following information:

- EAC label
- CE label
- Part sales designation/type
- Part number
- Permitted pressure range
- Coded date of manufacture
- QR code



1.4 Symbol



This symbol indicates useful and important information.

- \checkmark This symbol represents a prerequisite that must be met prior to an operational step.
- This symbol represents an action to be performed.
- \Rightarrow This symbol represents the result of an action.

Actions that consist of more than one step are numbered:

- 1. First action to be performed.
- 2. Second action to be performed.



2 Fundamental Safety Instructions

2.1 Intended Use

The ejector is designed to generate a vacuum for gripping and transporting objects when used in conjunction with suction cups. The ejector is operated with discrete control signals.

Neutral gases are approved as evacuation media. Neutral gases include air, nitrogen and inert gases (e.g. argon, xenon and neon).

The product is built in accordance with the latest standards of technology and is delivered in a safe operating condition; however, hazards may arise during use.

The product is intended for industrial use.

Intended use includes observing the technical data and the installation and operating instructions in this manual.

2.2 Non-Intended Use

Camozzi accepts no liability for damages caused by non-intended usage of the ejector.

In particular, the following are considered non-intended use:

- Filling pressurized containers, driving cylinders, valves or other pressure-operated functional elements
- Use in potentially explosive atmospheres
- Use in medical applications
- Lifting people or animals
- Evacuation of objects that are in danger of imploding
- Ballistic applications

2.3 Personnel Qualification

Unqualified personnel cannot recognize dangers and are therefore exposed to higher risks!

The operating company must ensure the following points:

- The personnel must be commissioned for the activities described in these operating instructions.
- The staff must be at least 18 years of age and physically and mentally capable.
- The operating staff have been instructed in the operation of the product and have read and understood the operating instructions.
- Installation, maintenance, and repairs must be carried out only by specialists or by persons who can prove that they have undergone appropriate training.

Valid for Germany:

A qualified employee is defined as an employee who has received technical training and has the knowledge and experience – including knowledge of applicable regulations – necessary to enable him or her to recognize possible dangers and implement the appropriate safety measures while performing tasks. Qualified personnel must observe the pertinent industry-specific rules and regulations.



2.4 Warnings in This Document

Warnings warn against hazards that may occur when handling the product. The signal word indicates the level of danger.

Signal word	Meaning
WARNING	Indicates a medium-risk hazard that could result in death or serious injury if not avoided.
CAUTION	Indicates a low-risk hazard that could result in minor or moderate injury if not avoided.
NOTE	Indicates a danger that leads to property damage.

2.5 Residual Risks



Noise pollution due to the escape of compressed air

Hearing damage!

- Wear ear protectors.
- The ejector must only be operated with a silencer.



Extraction of hazardous media, liquids or bulk material

Personal injury or damage to property!

- > Do not extract harmful media such as dust, oil mists, vapors, aerosols etc.
- Do not extract aggressive gases or media such as acids, acid fumes, bases, biocides, disinfectants or detergents.
- > Do not extract liquids or bulk materials, e.g. granulates.



Uncontrolled movements of system components or falling of objects caused by incorrect activation and switching of the Ejector while persons are in the plant (safety door opened and actuator circuit switched off)

Serious injury

- Ensure that the valves and ejectors are enabled via the actuator voltage by installing a potential separation between the sensor and actuator voltage.
- Wear the required personal protective equipment (PPE) when working in the danger zone.



Depending on the purity of the ambient air, the exhaust air can contain particles, which escape from the exhaust air outlet at high speed.

Eye injuries!

- Do not look into the exhaust air flow.
- Wear eye protection.





Vacuum close to the eye

Severe eye injury!

- Wear eye protection.
- Do not look into vacuum openings such as suction lines and hoses.

2.6 Modifications to the Product

Camozzi assumes no liability for consequences of modifications over which it has no control:

- 1. The product must be operated only in its original condition as delivered.
- 2. Use only original spare parts from Camozzi.
- 3. The product must be operated only in perfect condition.



3 Product Description

3.1 Ejector Structure



8

- 3 "Suction" pilot valve
- 4 "Blow off" pilot valve

7 Mounting hole (2x)

Exhaust outlet (marking 3)

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4 Technical Data

4.1 General Parameters

Parameter	Symbol	Limit value		Unit	Comment	
		min.	typ.	max.		
Working temperature	T _{amb}	0		50	°C	
Storage temperature	T _{sto}	-10		60	° C	
Humidity	H_{rel}	10		90	% r.h.	Free from condensation
Degree of protection				IP65		
Operating pressure (flow pressure)	Р	3	4	6	bar	
Max. vacuum	р			-850	mbar	
Operating medium	Air or neutral gas 20 um filtered with or without oi			thout oil, class 3-3-3 com-		

Air or neutral gas, 20 μ m filtered, with or without oil, class 3-3-3 compressed air quality in acc. with ISO 8573-1

4.2 Electrical Parameters

Parameter	Symbol	L	imit value	es	Unit	Comment
		min.	typ.	max.		
Supply voltage	U _{SA}	22.8	24	26.4	V DC	PELV ¹⁾
Power consumption from U_A^{2} with NO variant	I _{S/A}		_	110	mA	U _{S/A} = 24.0 V
Power consumption from U_A^{2} with NC variant	I _{S/A}		_	55	mA	U _{S/A} = 24.0 V

1) The power supply must correspond to the regulations in accordance with EN60204 (protected extra-low voltage).

2) Simultaneous activation of the "suction" and "blow off" valves

4.3 Performance Data

Nozzle size [mm]	1.0	1.5	
Max. vacuum ¹ [%]	8	5	
Suction rate ¹ [l/min]	34	63	
Max. blow off capacity ¹ [l/min]	120		
Air consumption ¹ (suction) (I/min]	42	95	
Sound level ¹ , unobstructed suction [dB(A)]	75	77	
Sound level ¹ , suction [dB(A)]	61	65	
Mass [kg]	0.1	95	

¹⁾ At 4.0 bar



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4.4 Dimensions



All specifications are in mm

4.5 Pneumatic Circuit Plans

Key:	
NC	Normally closed
NO	Normally open
1	Compressed air connection
2	Vacuum connection
3	Exhaust outlet





5 General Description of Functions

5.1 Applying Suction to the Workpiece/Part

The ejector is designed for vacuum handling of airtight parts in combination with suction systems. The vacuum is generated in a nozzle according to the Venturi principle, using suction generated by the flow of accelerated compressed air. Compressed air is channeled into the ejector and flows through the nozzle. A vacuum is generated immediately downstream of the motive nozzle; this causes the air to be sucked through the vacuum connection. The air and compressed air that have been removed by the suction exit together via the silencer or exhaust air channel.

The "Suction" pilot valve is controlled directly.

- In the NO (normally open) variant, the venturi nozzle is deactivated when the suction signal is received.
- In the NC (normally closed) variant, the venturi nozzle is activated when the suction signal is received.

When objects with airtight surfaces are picked up, the integrated non-return valve prevents the vacuum from dropping.

5.2 Depositing the Workpiece/Part (Blowing Off)

In blow off mode, the vacuum circuit of the ejector is supplied with compressed air. This ensures that the vacuum drops quickly, allowing the workpiece/part to be deposited quickly.

The "Blow off" pilot value is controlled directly. The ejector switches to blow off mode for as long as the signal is present.

5.3 Changing the Blow-Off Flow Rate on the Ejector



Do not overwind past the stop on the valve screw. A minimum flow rate of approx. 10% is always necessary for technical reasons. The blow off volume flow can be set between 10% and 100%.

The figure shows the position of the valve screw (1) for adjusting the blow off flow rate. The valve screw is equipped with a stop on both sides.

- Rotate the valve screw (1) clockwise to reduce the flow rate.
- Rotate the valve screw (1) counterclockwise to increase the flow rate.





6 Transport and Storage

6.1 Checking the Delivery

The scope of delivery can be found in the order confirmation. The weights and dimensions are listed in the delivery notes.

- 1. Compare the entire delivery with the supplied delivery notes to make sure nothing is missing.
- 2. Damage caused by defective packaging or occurring in transit must be reported immediately to the carrier and Camozzi Automation spa.



7 Installation

7.1 Installation Instructions



Improper installation or maintenance

Personal injury or damage to property

• During installation and maintenance, make sure that the product is disconnected and depressurized and that it cannot be switched on again without authorization.

For safe installation, the following instructions must be observed:

- Use only the connectors, mounting holes and attachment materials that have been provided.
- Mounting and removal must be performed only when the device is unpressurized and disconnected from the mains.
- Pneumatic and electrical line connections must be securely connected and attached to the product.

7.2 Mounting

The ejector can be installed in any position.

There are two 4.4 mm mounting holes for mounting the ejector.

A DIN rail mount for DIN rail TS35 can be used as a mounting option.



1 DIN rail mount for TS35 DIN rail, incl. plastic tapping screws Max. tightening torque 0.5 Nm

2x M4 fastening screws with washers

When mounting with fastening screws, use M4 washers (2 Nm max. tightening torque).

For the start of operations, the ejector must be connected to the controller via the connection plug with a connection cable. The compressed air required to generate the vacuum is connected via the compressed air connection. The compressed air supply must be supplied by the higher-level machine.

The vacuum circuit is connected to the vacuum connection.

The installation process is described and explained in detail below.

7.3 Pneumatic Connection



Compressed air or vacuum in direct contact with the eye

Severe eye injury

- Wear eye protection
- Do not look into compressed air openings
- > Do not look into the silencer air stream
- > Do not look into vacuum openings, e.g. suction cups



Noise pollution due to incorrect installation of the pressure and vacuum connections

Hearing damage

- Correct installation.
- Wear ear protectors.

7.3.1 Connecting the Compressed Air and Vacuum

The compressed air connection is marked with the number 1 on the ejector.

• Connect the compressed air hose. The max. tightening torque is 3 Nm.

The vacuum connection is marked with the number 2 on the ejector.

• Connect the vacuum hose. The max. tightening torque is 3 Nm.

7.3.2 Instructions for the Pneumatic Connection

Use only screw unions with cylindrical G-threads for the compressed air and vacuum connection!

To ensure problem-free operation and a long service life of the ejector, only use adequately maintained compressed air and consider the following requirements:

- Use of air or neutral gas in accordance with EN 983, filtered 20 μm , oiled or unoiled.
- Dirt particles or foreign bodies in the ejector connections, hoses or pipelines can lead to partial or complete ejector malfunction.
- 1. Shorten the hoses and pipelines as much as possible.
- 2. Keep hose lines free of bends and crimps.
- 3. Only use a hose or pipe with the recommended internal diameter to connect the ejector, otherwise use the next largest diameter.

- On the compressed air side, ensure that the internal diameter has the dimensions required for the ejector to achieve its performance data.

- On the vacuum side, ensure that the internal diameters have the necessary dimensions for preventing high flow resistance. If the selected internal diameter is too small, the flow resistance and the evacuation times increase and the blow off times are extended.

The following table shows the recommended line cross-sections (internal diameter):

Performance class	Line cross-section (internal diameter) in mm ¹⁾		
	Pressure side	Vacuum side	
10	4	4	
15	4	6	

¹⁾ Based on a maximum hose length of 2 m.

• For longer hose lengths, the cross-sections must also be larger.

7.4 Electrical connection



Electric shock

Risk of injury

 Operate the product using a power supply unit with protected extra-low voltage (PELV).



By activating/deactivating the product, output signals lead to an action in the production process!

Personal injury

- Avoid possible danger zone.
- Remain vigilant.



NOTE

Incorrect power supply

Destruction of the integrated electronics

- Operate the product using a power supply unit with protected extra-low voltage (PELV).
- The system must incorporate safe electrical cut-off of the power supply in compliance with EN60204.
- Do not connect or disconnect the connector under tension and/or when voltage is applied.
- ▶ Insert the connectors for the solenoid valves until they engage.

Camozzi connection lines can be used to connect the ejector directly to the controller.



Polarity does not have to be observed when connecting the valves.



• Actuate the lock lever to dismantle.



8 Operation

8.1 Safety Instructions for Operation



Change of output signals when product is switched on or plug is connected

Risk of injury to persons and damage to property due to uncontrolled movements of the higher-level machine/system!

• The electrical connection must be performed only by specialists who can evaluate the effects of signal changes on the overall system.



When the system is started in automatic operation, components move without advanced warning.

Risk of injury

• Ensure that the danger zone of the machine or system is free of persons during automatic operation.

8.2 General Preparations

Always carry out the following tasks before activating the system:

- 1. Before each start of operations, check that the safety features are in perfect condition.
- 2. Check the ejector for visible damage and deal with any problems immediately (or notify your supervisor).
- 3. Ensure that only authorized personnel are present in the working area of the machine or system and that no other personnel are put in danger by switching on the machine.

There must be no people in the system danger area while it is in operation.

9 Help with Faults

Fault	Cause	Solution			
Ejector does not re- spond	No actuator supply voltage	 Check electrical connection and pin as- signment 			
	No compressed air supply	 Check the compressed air supply. 			
	Ejector is faulty.	 Check the ejector and contact Camozzi Service if necessary. 			
Vacuum level is not reached or vacuum is	Press-in screen in contami- nated	Replace screen			
created too slowly	Silencer is dirty	 Replace silencer insert 			
	Hose or screw unions are leak- ing	 Replace or seal components 			
	Leakage at suction cup	 Eliminate leakage from suction cup 			
	Operating pressure too low	 Increase operating pressure, observe maximum limits 			
	Internal diameter of hose line too small	 Observe recommendations for hose di- ameter 			
Load cannot be held	Vacuum level too low	 Increase operating pressure, observe maximum limits 			
	Suction cup too small	 Select a larger suction cup 			



10 Maintenance

10.1 Safety Instructions

Maintenance work may only be carried out by qualified personnel.

• Create atmospheric pressure in the ejector's compressed air circuit before working on the system!



Failure to follow the instructions in these Operating instructions may result in injuries!

• Read the Operating instructions carefully and observe the contents.



Risk of injury due to incorrect maintenance or troubleshooting

• Check the proper functioning of the product, especially the safety features, after every maintenance or troubleshooting operation.



NOTE

Incorrect maintenance work

Damage to the ejector!

- Always switch off the supply voltage before carrying out maintenance work.
- Secure it so that it cannot be switched back on.
- The ejector must be operated only with a silencer and press-in screen(s).

10.2 Cleaning the Ejector

- 1. For cleaning, do not use aggressive cleaning agents such as industrial alcohol, white spirit or thinners. Only use cleaning agents with pH 7–12.
- 2. Remove dirt on the exterior of the device with a soft cloth and soap suds at a maximum temperature of 60° C. Make sure that the silencer is not soaked in soapy water.
- 3. Ensure that no moisture can reach the electrical connection or other electrical components.

10.3 Replacing the Silencer Insert

Heavy infiltration of dust, oil, and so on, may contaminate the silencer insert and reduce the suction capacity. Cleaning the silencer insert is not recommended due to the capillary effect of the porous material.

11 Warranty

This system is guaranteed in accordance with our general terms of trade and delivery. The same applies to spare parts, provided that these are original parts supplied by us.

We are not liable for any damage resulting from the use of non-original spare parts or accessories.

The exclusive use of original spare parts is a prerequisite for the proper functioning of the ejector and for the validity of the warranty.

Wearing parts are not covered by the warranty.

Opening the ejector will damage the "tested" labels. This voids the warranty.



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12 Accessories

Part no.	Designation	Note
70-1303-0192	Connection cable	for pilot valves
60A2903-0028	DIN rail mount	for DIN rail TS35

13 Decommissioning and Recycling

13.1 Disposing of the Product

- 1. Dispose of the product properly after replacement or decommissioning.
- 2. Observe the country-specific guidelines and legal obligations for waste prevention and disposal.

13.2 Materials Used

Component	Material
Housing	PA6-GF, PC-ABS
Inner components	Aluminum alloy, anodized aluminum alloy, brass, galvanized steel, stainless- steel, PU, POM
Silencer insert	Porous PE
Screws	Galvanized steel
Seals	Nitrile rubber (NBR)
Lubrication	Silicone-free



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