

Assembly Instructions

WALTHER-Maxi-Handpen[®]

Article number: VMS-11



Fig.: Maxi-Handpen[®] VMS-11 with adapter for foam (979753) and interchange part made of foam (979756)



NOTE

Please read the Assembly Instructions before first using the incomplete device and strictly adhere to the instructions!

This incomplete device may only be worked with and worked on by persons who are familiar with the assembly instructions and the current regulations for industrial safety and accident prevention.

**Always keep this translated version of the original Assembly Instructions at the device!
The instructions have to be close at hand any time!**

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EC Declaration of Incorporation

in accordance with EU Machinery Directive 2006/42/EU, dated 17 May 2006, Appendix II B

We herewith confirm that the below mentioned incomplete device meets the basic requirements for safety and health as stated in EU Machinery Directive 2006/42/EU for its design and construction as well as for the configuration released by us on the market. This machine component will not be operated before it has been determined that the incomplete system where the machine component will be installed also meets the requirements of the Directive (2006/42/EG).

Manufacturer

Walther Systemtechnik GmbH
Hockenheimer Straße 3
D- 76726 Germersheim

Description

WALTHER-Maxi-Handpen®, article-no. VMS-11

We also declare the conformity with other, product-relevant directives/guidelines:

Mach. Direct. 2006/42/EU App. I, Clause: 1.1.2, 1.1.3, 1.1.5, 1.1.6, 1.3.2, 1.3.3,
1.3.4, 1.5.9
EMC Directive 2004/108/EU, dated 15 December 2004

Applied harmonized standards, in particular:

DIN EN ISO 12100 Safety of Machinery – General Design Principles –
Risk Assessment and Risk Reduction (ISO
12100:2010)

In addition, we also confirm that the special documentation according to Appendix VII Part B has been prepared.


The manufacturer, respectively his authorized representative obligates himself to submit this documentation to the market surveillance authorities, if requested.

This EC Declaration of Incorporation becomes invalid if the incomplete device will be altered or changed without consent of Walther Systemtechnik GmbH.

Authorized representative for Technical Documentation:

Stefan Hirl, Hockenheimer Straße 3, D- 76726 Germersheim

Germersheim, 30 October 2015
(place, date)


(Stefan Hirl, management)

1 Introduction

1.1 Target Group of the Assembly Instructions

- Operating personal
- Maintenance personal

1.2 List of signs and symbols

The assembly instructions warn users of operations which may put their health at risk. The warnings are indicated by combinations of text and symbols as follows:



DANGER

Describes a potentially dangerous situation. Death, grievous bodily harm or severe material damage **WILL** occur if the respective measures of precaution have not been taken



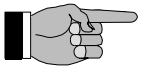
WARNING

Describes a potentially dangerous situation. Death, grievous bodily harm or severe material damage **MAY** occur if the respective measures of precaution have not been taken



CAUTION

Describes a potentially dangerous situation. Slight injuries **CAN** occur if the respective measures of precaution have not been taken. This signal word is also used to describe possible property damages.



IMPORTANT

Indicates tips for usage and other particularly useful information. **No** dangerous situation.

2 Safety

2.1 General information

The construction of this device is according to the latest technology and is absolutely reliable. The individual components as well as the complete device are continuously checked by our quality management.

2.2 Dangers due to residual energy

Please instruct the operating personnel on the respective measures to be taken against the occurrence of mechanical, hydraulic, pneumatic and electric / electronic residual energies.

2.3 Warranty and Liability

According to the conditions laid down by the German Engineering Federation (VDMA), Walther Systemtechnik GmbH has a guarantee of 12 months under normal European operating conditions on its own parts (spare parts are excluded); or according to the conditions of the manufacturer.

This guarantee can only be granted by Walther Systemtechnik GmbH, if:

- the user has thorough knowledge of the content of the assembly instructions;
- the user follows the instructions and notes contained in the assembly instructions;
- the user does not rebuild or make changes on parts of the device without prior consent of WST Systemtechnik GmbH.

2.4 Correct use

This device is suitable for the application of highly viscous media. It is not suitable for spraying aggressive fluids such as acids, alkaline solutions, cleaning agents, chemicals, etc. In case of doubt, please contact the medium manufacturer.

2.5 Incorrect use

- Operating the device with insufficient knowledge about the operation, maintenance and care of the device.
- Making changes, extensions or alterations on the device that may hamper its safety without the prior consent of Walther Systemtechnik GmbH.
- Operating the device with defective safety installations or not properly attached or malfunctioning safety devices.
- Using unsuitable materials.
- Handling the device while energized.

2.6 Qualification of Personnel

Only trained and instructed personnel may conduct work on the equipment.

The responsibilities of the personnel for assembly work, operation, repair work or maintenance work must be clearly assigned to individuals!

Persons in training may work with the equipment only under supervision of an experienced person.

Personnel Task	Instructed Personnel	Personnel with Technical Qualification	Specialist	Supervisor
Packing, Transport	X	-	-	-
Commissioning		X	X	-
Operation	X			-
Troubleshooting, general		X	X	-
Troubleshooting mechanical	-	X	-	-
Troubleshooting electrical	-	-	X	-
Setting up	-	X	-	-
Maintenance	-	X	-	-
Repair	-	X	X	-
Taking out of service, Storage	-	X	X	-

3 Transport

3.1 Packaging

The type of packaging depends on the individual mode of shipping. If not separately contracted, the packaging is in accordance with the rules and regulations of Walther Systemtechnik GmbH. This rule is in accordance with the Federal Association for Packaging HPE.

3.2 Tasks before Transport

The following has to be done before transport:

- Disconnect all power lines.

The actual transport of the incomplete device and its individual parts requires special care in order to prevent damages from external forceful impact or careless on- and off-loading. Depending on the mode of transportation, suitable transport and load securing has to be selected. The incomplete device will be aligned and leveled by appropriate fastening elements.

4 Product description

4.1 Designated use

Due to its light weight and compact size, the WALTHER-Maxi-Handpen® VMS-11 is perfectly suitable for all applications that require a manual application of the medium. The use of different adapters facilitates the perfect adjustment to the specific application task. These valves are preferably used for the application of greases, adhesives, colours, and oils as well as sliding lacquers. Depending on the nozzle size, media of all viscosity levels can be used. Under observance of this manual, the WALTHER-Maxi-Handpen® VMS-11 is a reliable high-precision tool with a long service life.



CAUTION

Use of media other than that specified may cause malfunction, damage or even destruction of the device.

4.2 Labeling

The type plate is located directly on the pen body. It contains all information to identify the device.



NOTE

Please indicate the product information shown on the type plate when ordering spare parts or requesting technical support.

4.3 Function

The WALTHER-Maxi-Handpen® VMS-11 is a manual application device for sprayable media conveyed from a pressure container or via a pump. In order to apply the medium, the hand grip has to be held down. The material will continue to flow out of the nozzle as long as the hand grip is held down.

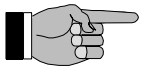
4.4 Technical data

Article number	VMS-11
Dimensions [mm]	140/150 x 45 x 20 (length depending on the nozzle and hose connection)
Operating pressure [bar]	max. 20
Weight [g]	approx. 128
Material inlet	hose 4/3
Seals material	VITON
Housing material	aluminum

5 Initial Start-up

The device was completely checked through and adjusted prior to consignment.

The medium hose must be connected to the hose connection (8 – see *exploded diagram*).



NOTE

Make sure that all screw connections and fittings are fastened tightly!

6 Operation

6.1 Control elements

Lever (6 – see exploded diagram)

Operation of Handpen®

- pressing lever opens the nozzle opening
- releasing lever closes the nozzle opening

Bearing pin (15 – see exploded diagram)

Adjustment of the material amount by means of stroke adjustment of the needle

- left turn increases amount
- right turn decreases amount



WARNING

The needle stroke must be turned anticlockwise only so far that the screw still guarantees a tight seat. The maximum needle stroke adjustment is already exceeded at that point.



WARNING

The nozzle and the needle can be damaged if not handled properly. A reduction in the material amount (by a right turn of the setscrew) must only be performed while medium is flowing out.

After the lever is closed, the setscrew must not be turned further towards the right!

**NOTE**

During longer standstills the medium may remain in the valve if under pressure and if there is no connection to the outside air. This excludes media that dry without air.

7 Taking out of service

7.1 Short interruption

For short interruptions, such as overnight or during weekends, perform the following tasks:

- Make sure that no pressure is left in the system.

7.2 Long-term interruption

Please observe the procedure stated below, when taking the device out of service for longer periods of time:

- Make sure that no pressure is left in the system.
- Clean device.

7.3 Final shutdown of the device

Please observe the following procedure, when finally shutting down the device:

- Make sure that no pressure is left in the system.
- Clean device.

8 Maintenance

8.1 General information

The WALTHER-Maxi-Handpen[®] VMS-11 is a high precision tool. Always keep clean and observe minimum instructions to maintain a long and useful life of the valve. Use clean and filtered application fluid only! Individual operating conditions and different application media necessitate respective minimal maintenance procedures.

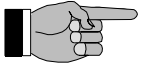
**WARNING**

Danger caused by combustible and noxious spraying material.
Please observe the safety instructions contained in the safety data sheets of the fluid manufacturer.

**WARNING**

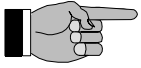
Before opening the Handpen[®], make sure that no pressure is left in the system.
Ejected elements can cause danger.

8.2 Cleaning



NOTE

Only use soft brushes for outside cleaning e.g. of nozzle tips. Never use metal tools with sharp edges!



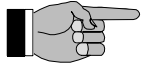
NOTE

Wash all equipment coming in contact with the material thoroughly after use. This especially applies when needle, setscrew or nozzle are to be replaced.

8.3 Spare Parts

IMPORTANT

Only use original spare parts from the manufacturer!



Wrong or defective spare parts from other manufacturers can damage the device. If other than original spare parts of the manufacturer will be used, all obligations from the manufacturer or his sales partners, such as guarantees, service contracts etc will be **forfeited** without further notice.

8.4 Customer service / support

Walther Systemtechnik GmbH

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Germany

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9 Troubleshooting

9.1 General information



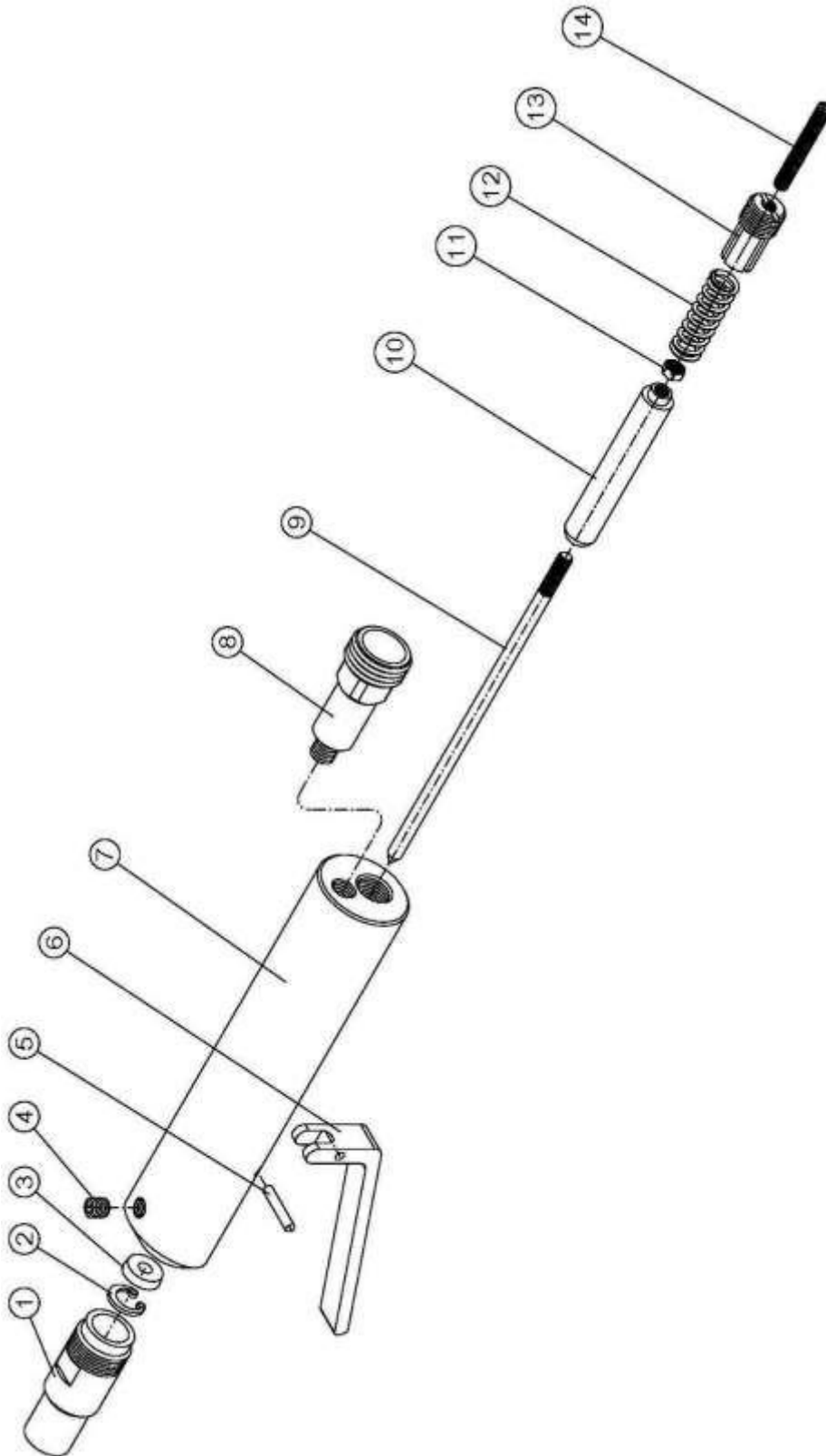
IMPORTANT

First check all supply lines for connectivity and serviceability

In case of serious problems that cannot be resolved, please contact the Walther Systemtechnik GmbH customer service.

10 Appendix

10.1 Exploded diagram – WALTHER-Maxi-Handpen® VMS-11



10.1.1 Spare parts list – WALTHER-Maxi-Handpen® VMS-11

Draw.-No.	Article-No.	Pieces	Description
1	*	1	Nozzle
2	97620053	1	Safety ring DIN 472 I8x0.8
3	97640004	1	Variseal 2.65 x 2.0 x 2.8
4	97610338	1	Set screw DIN 913 M4 x3
5	97320657	1	Cylindrical pin DIN 6325 2 x10
6	97190032	1	Lever, 48,69 x 34,71 x 6.8 mm, nickel-plated
7	97511107	1	Main body
8	*	1	Hose connection
9	*	1	Nozzle needle, ø 0.8/1.0mm, 3 x 86mm
10	97320647	1	Needle pusher, ø 6.8 x 44mm
11	97410169	1	Female screw M3, SW 4
12	97820028	1	Pressure spring 0.9 x 20mm
13	97610470	1	Locking screw, M8x0.75, length 12mm
14	97610485	1	Stroke adjustment mandrel M3 x 22.5mm
	97910429	1	Suspension bracket (optionally available)

*Nozzle

Draw.-No.	Article-No.	Description
1	97210984	Adapter nozzle, ø 1.0, length 31mm, IG G1/8"
1	97211554	Luer-Lock-adapter, M12 x 0.75, complete
1	97210150	Nozzle, KV, 1.0 mm, stainless steel

*Hose connection

Draw.-No.	Article-No.	Description
8	970720411	Connector, M6 for hose 6/4
8	97220205	High-pressure connection, VA, AG M6 - 1/4"

*Needle






Draw.-No.	Article-No.	Description
9	97111885	Needle ø 0.2/0.3mm, 3x86mm (for adapter nozzle and Luer-Lock-adapter)
9	97111886	Needle ø 0.8/1.0mm, 3x104mm (for nozzle, KV=short version)


10.2 Wear-and-Tear Parts

	<i>Wear-and-tear set complete for VMS-11¹</i> <i>Consisting of:</i> <i># Pos. 3 (O-ring)</i>
Article-No.	Description
979504.012	Wear-and-tear kit for VMS-11, Variseal

¹ This wear-and tear kit is recommended for a complete overhaul of the device.

10.3 Accessories – WALTHER-Maxi-Handpen® VMS-11

1	Adapter Nozzles „Standard“ (Length 31mm; IG G 1/8)	
Article-No.	Description	
97211587	Adapter Nozzle Ø 0.3 mm	
97211372	Adapter Nozzle Ø 0.5 mm	
97210984	Adapter Nozzle Ø 1.0 mm	
97211539	Adapter Nozzle Ø 1.5 mm	
1	Adapter Nozzles „Luer-Lock“ (M12 x 0,75), complete	
Article-No.	Description	
97211915	Adapter Nozzle Ø 0.2 mm	
97211851	Adapter Nozzle Ø 0.3 mm	
97211997	Adapter Nozzle Ø 0.5 mm	
97211554	Adapter Nozzle Ø 1.0 mm	
97211909	Adapter Nozzle Ø 1.5 mm	
	<i>Luer lock needles</i>	
97210152	<i>Nozzle made of stainless steel, KV</i>	
97210603	<i>Slit nozzle, rotary</i>	
979753	<i>Adapter made of aluminium for foam</i>	
979756	<i>Interchange parts made of foam</i>	
979752	<i>Adapter made of aluminium for felt</i>	
979735	<i>Interchange parts made of felt with plastic cap (size 15x6 mm)</i>	
979735.01	<i>Interchange parts made of felt with plastic cap (size 5x6 mm)</i>	
979754.01	<i>Interchange parts made of felt with plastic cap (size 3x3 mm)</i>	
979754.02	<i>Interchange parts made of felt with plastic cap (size 5x5 mm)</i>	
979754.03	<i>Interchange parts made of felt with plastic cap (size 10x6 mm)</i>	
252.33	Anschlussnippel G1/8 – G1/8	
258.12	Dichtring G1/8	

		connection thread
97C00031	<i>Brush made of horsehair Ø 16 mm</i>	1/8"
97C05008	<i>Brush made of horsehair Ø 28,5 mm</i>	3/8"
979755	<i>Felt pen</i>	
		
9713898	<i>Brush made of horsehair Ø 6,5 mm</i>	1/8"
9713899	<i>Brush made of horsehair Ø 16 mm</i>	1/8"
9712522	<i>Brush made of perlon Ø 6,5 mm to 70°C</i>	1/8"
9712519	<i>Brush made of perlon Ø 16 mm to 70°C</i>	1/8"
		
BT-SOFT.16	<i>Brush tip needle BT16 Soft bristle</i>	<i>Luer lock</i>
BT-SOFT.18	<i>Brush tip needle BT18 Soft bristle</i>	<i>Luer lock</i>
BT-SOFT.22	<i>Brush tip needle BT22 Soft bristle</i>	<i>Luer lock</i>
		
BT-STIFF.16	<i>Brush tip needle BT16 Soft bristle</i>	<i>Luer lock</i>
BT-STIFF.18	<i>Brush tip needle BT18 Soft bristle</i>	<i>Luer lock</i>
BT-STIFF.22	<i>Brush tip needle BT22 Soft bristle</i>	<i>Luer lock</i>