

Assembly Manual

On-board dosing system (7678.55)

Introduction

Foreword

The installation procedures described in this assembly manual should only be undertaken by a Hako service centre or a workshop authorised by Hako. Members of staff with the required level of training and expertise are only guaranteed in the said workshops. This assembly manual may be used only in conjunction with the operating manual of the machine.

Safety instructions

Please observe the general safety regulations of the corresponding machine in the relevant operating manual. Place the machine on a level surface and secure it with the parking brake. Switch the machine off and pull out the key.

We would expressly advise you that no legal claims may be asserted based on the contents of this manual. In the case of necessary repair work, please make sure that only original spare parts are used. Only original spare parts guarantee constant and reliable operational readiness of your machine. We reserve the right to make changes in the interests of further technical development.

Valid as from: October 2017

Hako GmbH
23843 Bad Oldesloe, Germany
Hamburger Str. 209-239
Phone +49 4531 806-0

On-board dosing system

1 On-board dosing system

1.1 Parts list

- 1 Canister
- 2 Dosing pump cpl.
- 3 Assembly unit consisting of:
 - Flow sensor
 - Non-return valve
 - Double nipple
 - Screw-in nozzle
 - Hose, 230 mm long
 - Hose, 163 mm long
 - Retaining plate
 - Standard parts

Not shown:

Cable ties, standard parts, hoses, cable loom W102, assembly manual.

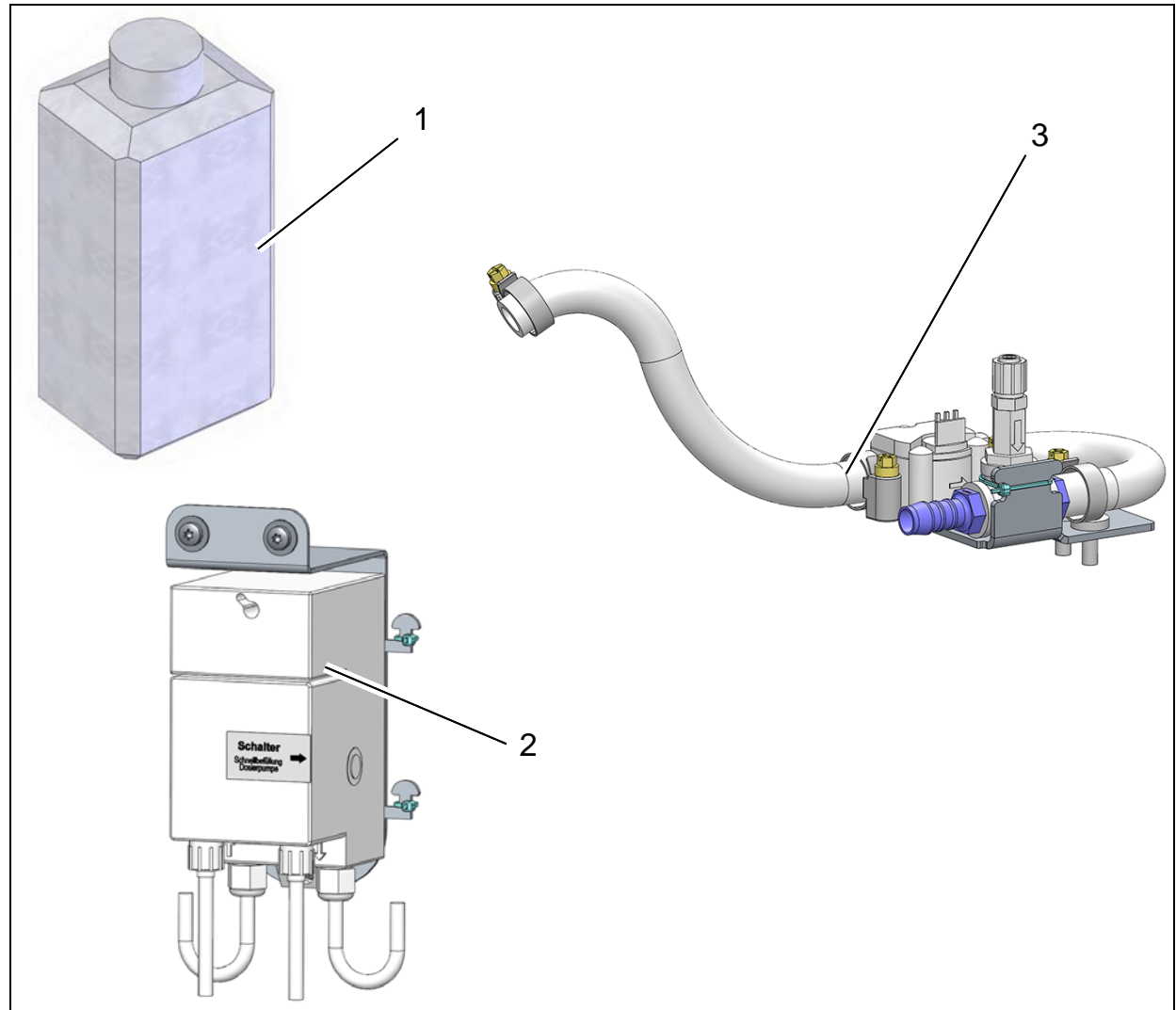


Fig. 1

On-board dosing system

1.2 Conversion at water supply of rotating brush unit TB750/TB900

Dismantling

Remove hose from solenoid valve (Fig. 2/1).

Assembly

1. Secure assembly unit to the rotating brush unit with the two M8x16 flanged button head bolts (Fig. 2/2).
2. Connect the hose of the flow sensor to the solenoid valve (Fig. 2/3).
3. Secure hose removed from solenoid valve to the screw-in nozzle of the non-return valve (Fig. 2/4).

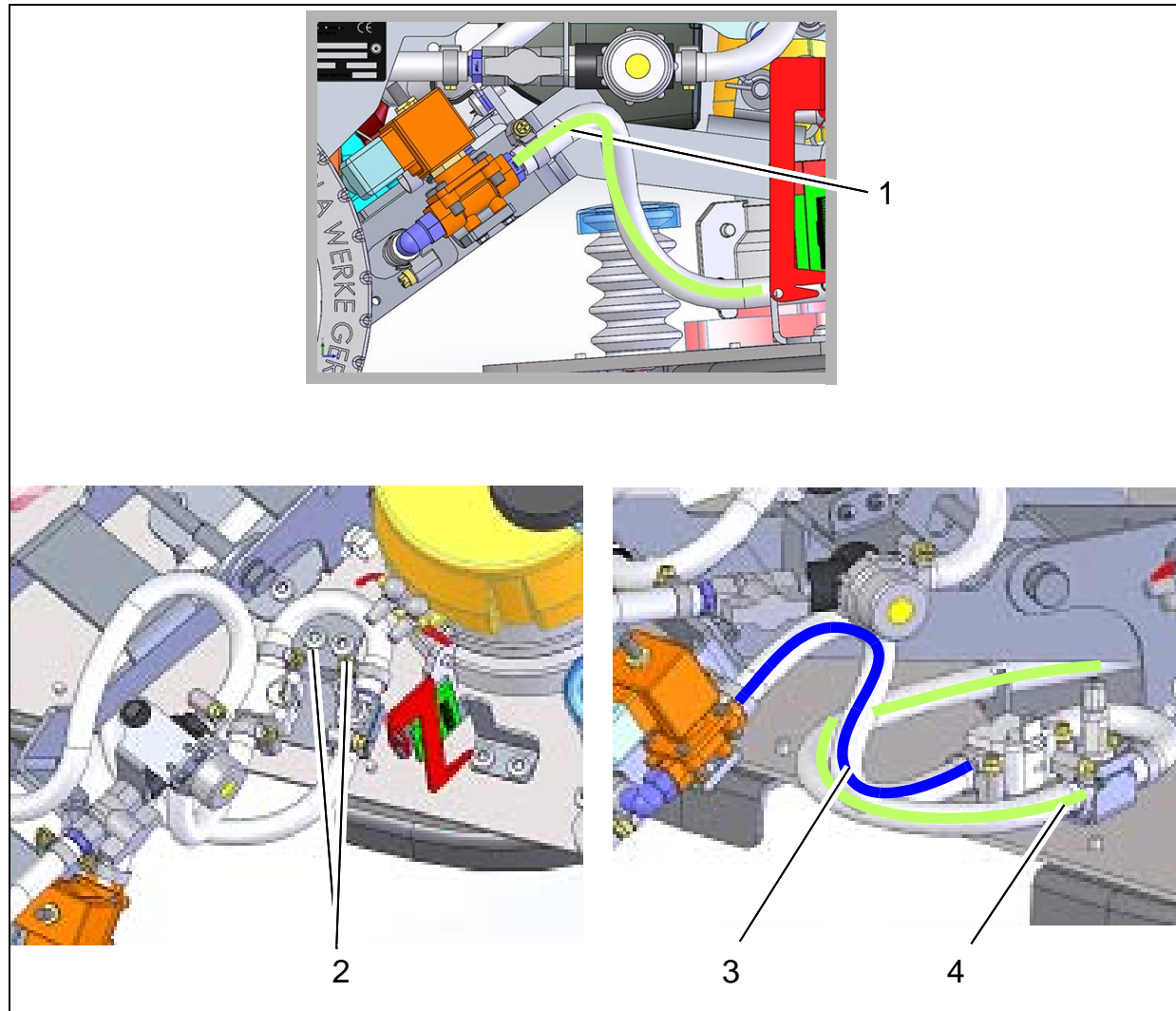


Fig. 2

On-board dosing system

1.3 Conversion at roller brush unit water supply WB700/WB850

Dismantling

Remove hose from solenoid valve (Fig. 3/1).

Assembly



Before assembling the assembly unit, the hose must be shortened from 230 mm to 170 mm (Fig. 3/2).

1. Secure assembly unit to the roller brush unit with the two M8x16 flanged button head bolts (Fig. 3/3).
2. Connect the hose of the flow sensor to the solenoid valve (Fig. 3/4).
3. Secure hose removed from solenoid valve to the screw-in nozzle of the non-return valve (Fig. 3/5).

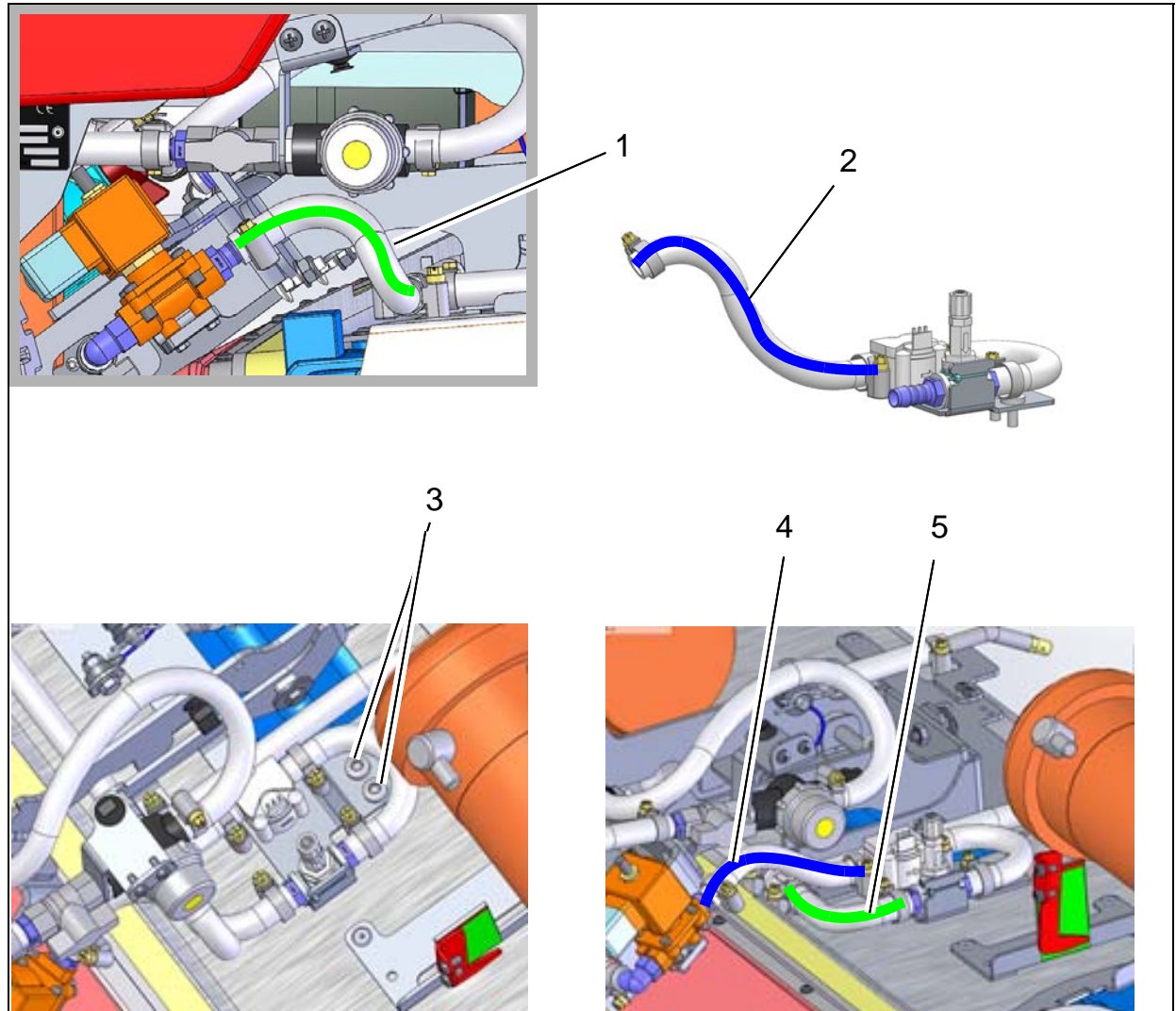


Fig. 3

On-board dosing system

1.4 Dosing pump assembly

The dosing pump is fitted to the support on the left-hand side of the machine. Attach the holder of the dosing pump to the chassis using the two flanged button head bolts M5x12 and washers (Fig. 4/1).

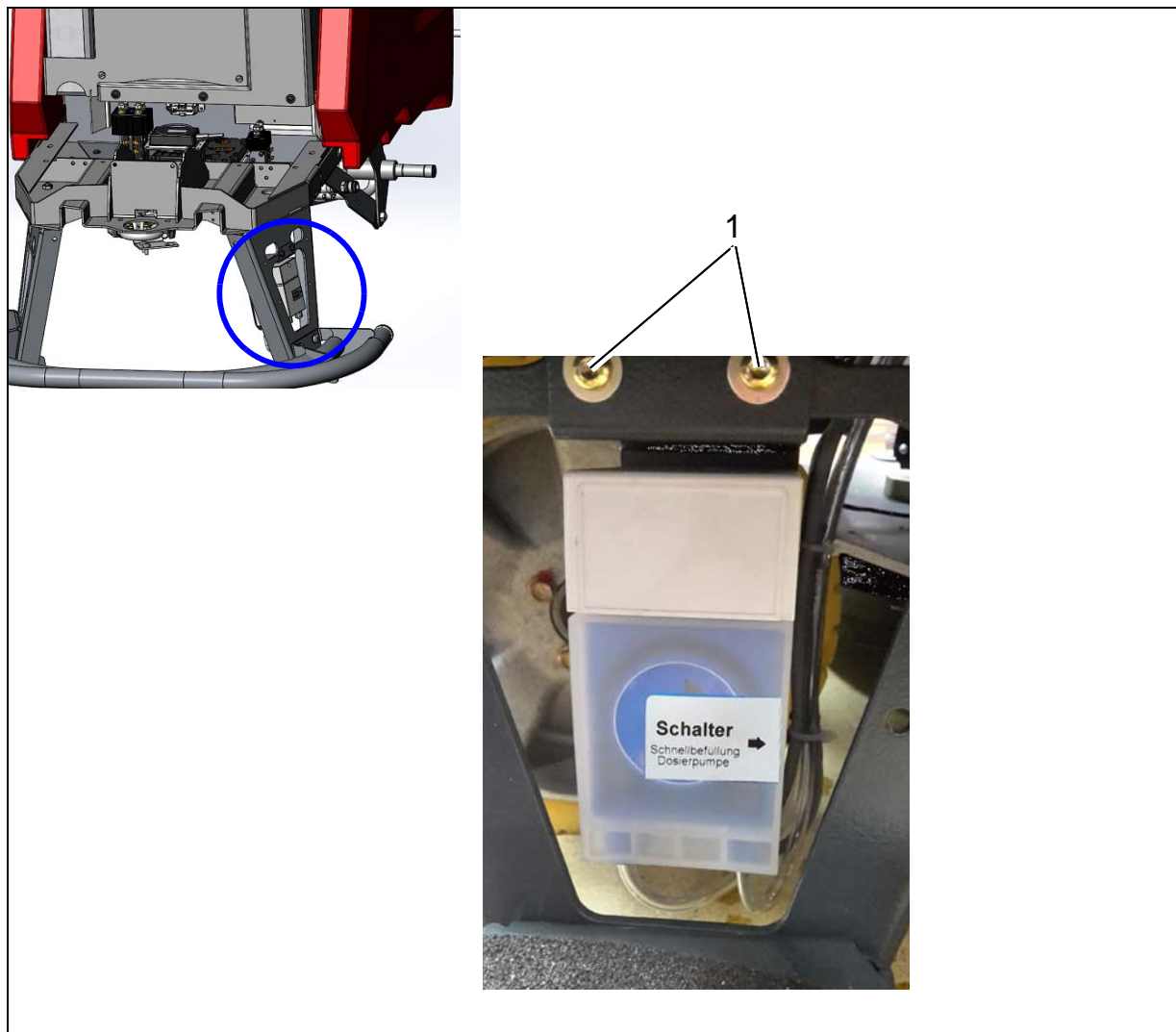


Fig. 4

On-board dosing system

1.5 Working at the canister and the electronics cover

Canister

1. Drill a 6 mm hole into the lid of the canister (Fig. 5/1) for the dosing hose.
2. Drill a 2 mm hole into the lid of the canister (Fig. 5/2) for pressure compensation.

Electronics cover

Drill a 6 mm hole into the electronics cover (Fig. 5/3) for the hose feed-through.



Fig. 5

On-board dosing system

1.6 Dosing hose assembly

A = Hose from dosing pump to canister (1800 mm long, shown in red).

B = Hose from dosing pump to non-return valve (1800 mm long, shown in green).

Assembly

1. Lead the dosing hoses behind the dosing pump along the electrical cable through the opening of the chassis (Fig. 6/1).
2. Lead the hoses above the chassis on the right-hand side of the machine (Fig. 6/2).
3. Route hose **A** beneath the plate (Fig. 6/3). Then lead the hose behind the holder of the machine controller to the hole in the cover (Fig. 5/3). **Otherwise there is a risk of crushing from the tread plate!**
4. Lead hose **B** through the hole of the chassis along the cable hose to the non-return valve.



Fix all hoses with cable ties. Do not squeeze or bend the hoses!

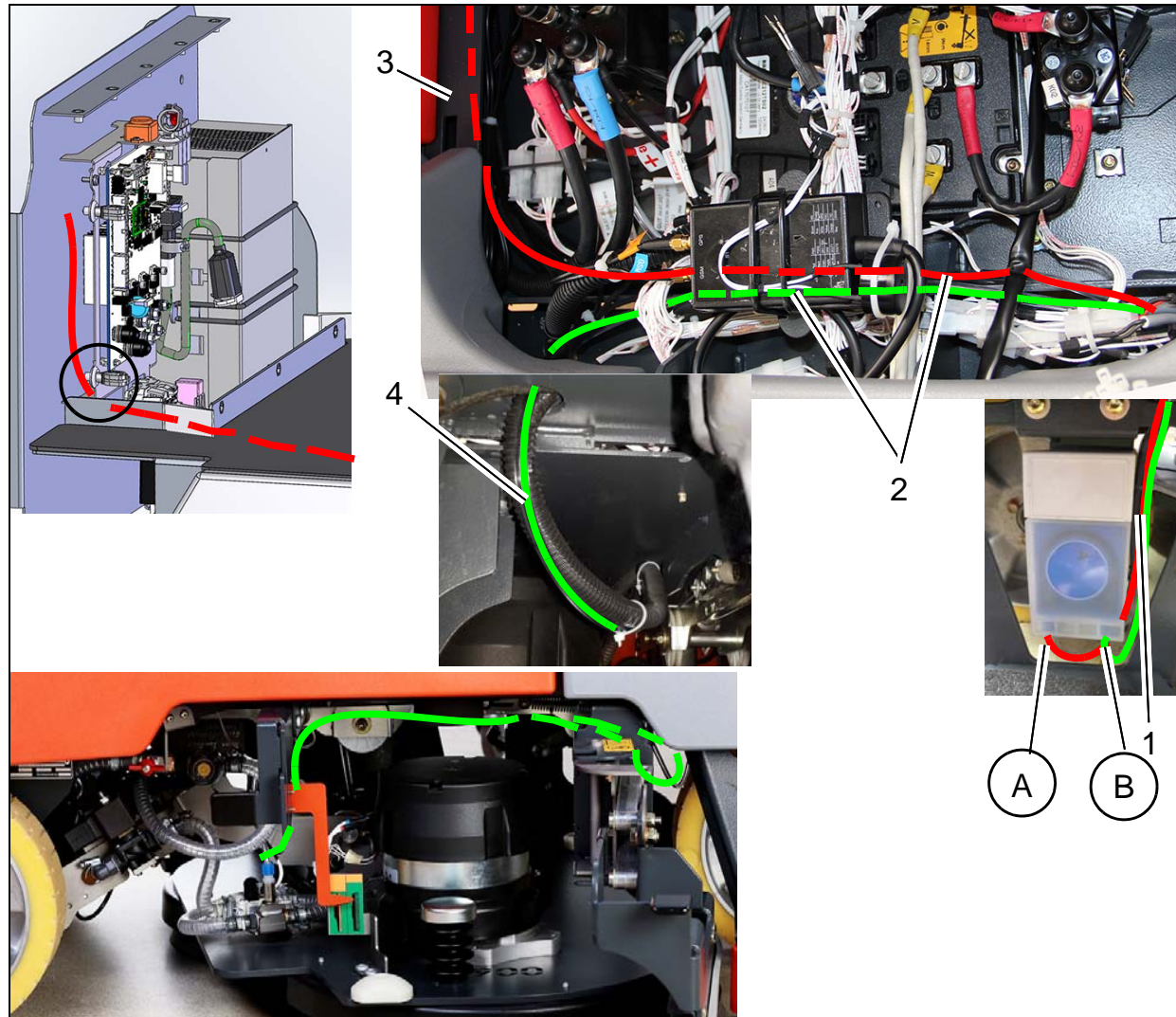



Fig. 6

On-board dosing system

1.7 Electrical connections

1. Connect 3-pole plug of cable loom W102 to the flow sensor (Fig. 7/1).
2. Slide protective cap over the plug housing and fix with cable ties (Fig. 7/2).
3. Run cable loom W102 along the hose from the non-return valve (Fig. 7/3) into the electronics compartment and fix in position using cable ties.
4. Lead the dosing pump connection cables through the opening in the chassis (Fig. 7/4) into the electronics compartment and connect them to cable loom W2 (A101/X1) and W102 (A101/X2) (Fig. 7/5).

-  see section 1.8.3 Circuit diagram.

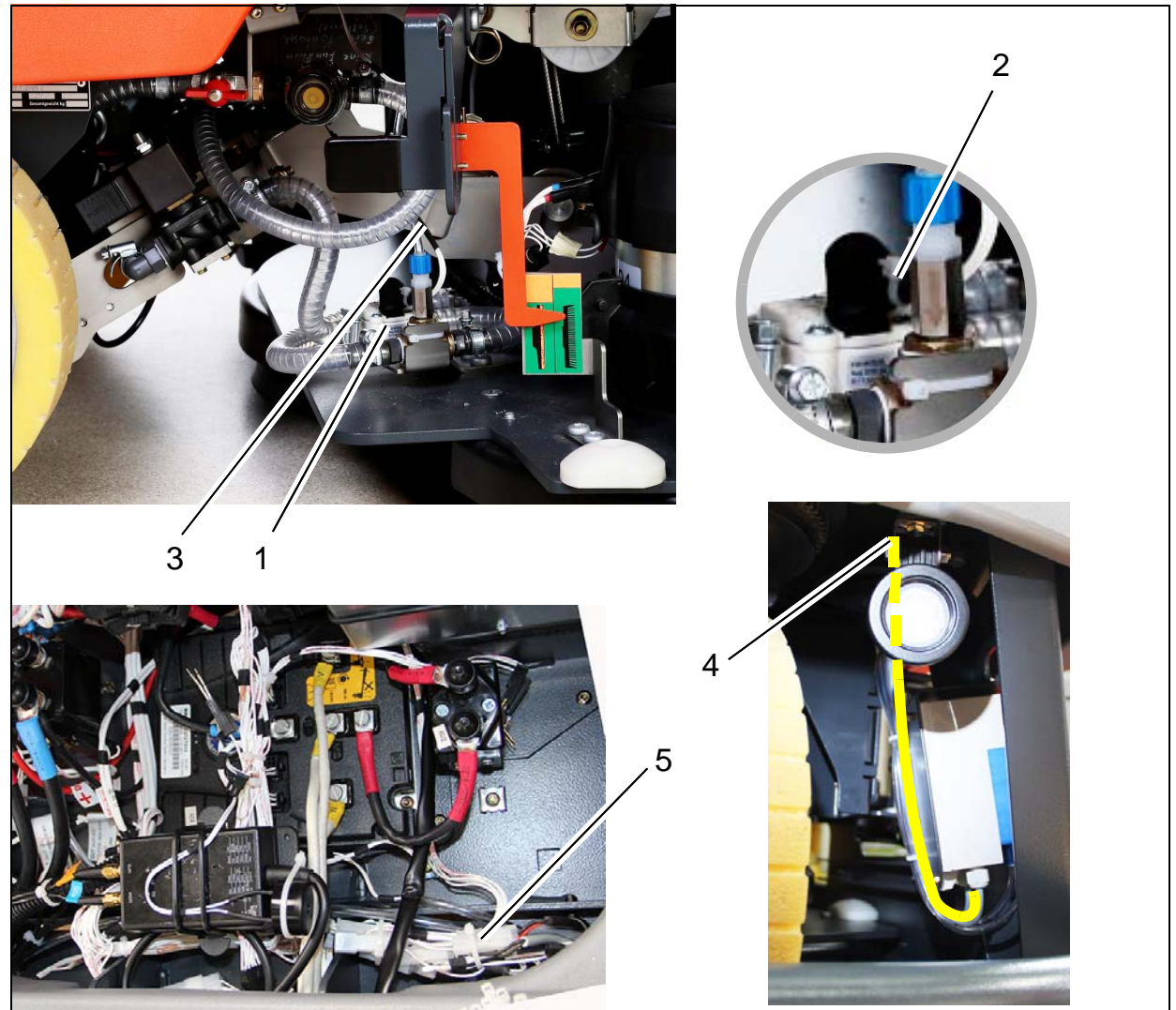


Fig. 7

On-board dosing system

1.8 Configuration menu

The On-board dosing system option must be activated via the configuration menu.

Value for On-board dosing system:

Option	A. B. _ . C.
On-board dosing system	1. 2. _ . 1.

A = Chapter

B = Configuration

C = Content

1.8.1 Button assignment

Button 1 (Fig. 8/T1):

Toggle between menu items **A**, **B** and **C**.

Button 2 (Fig. 8/T2):

Change the values in the respective menu item.

Button 3 (Fig. 8/T3):

Save the changed value.

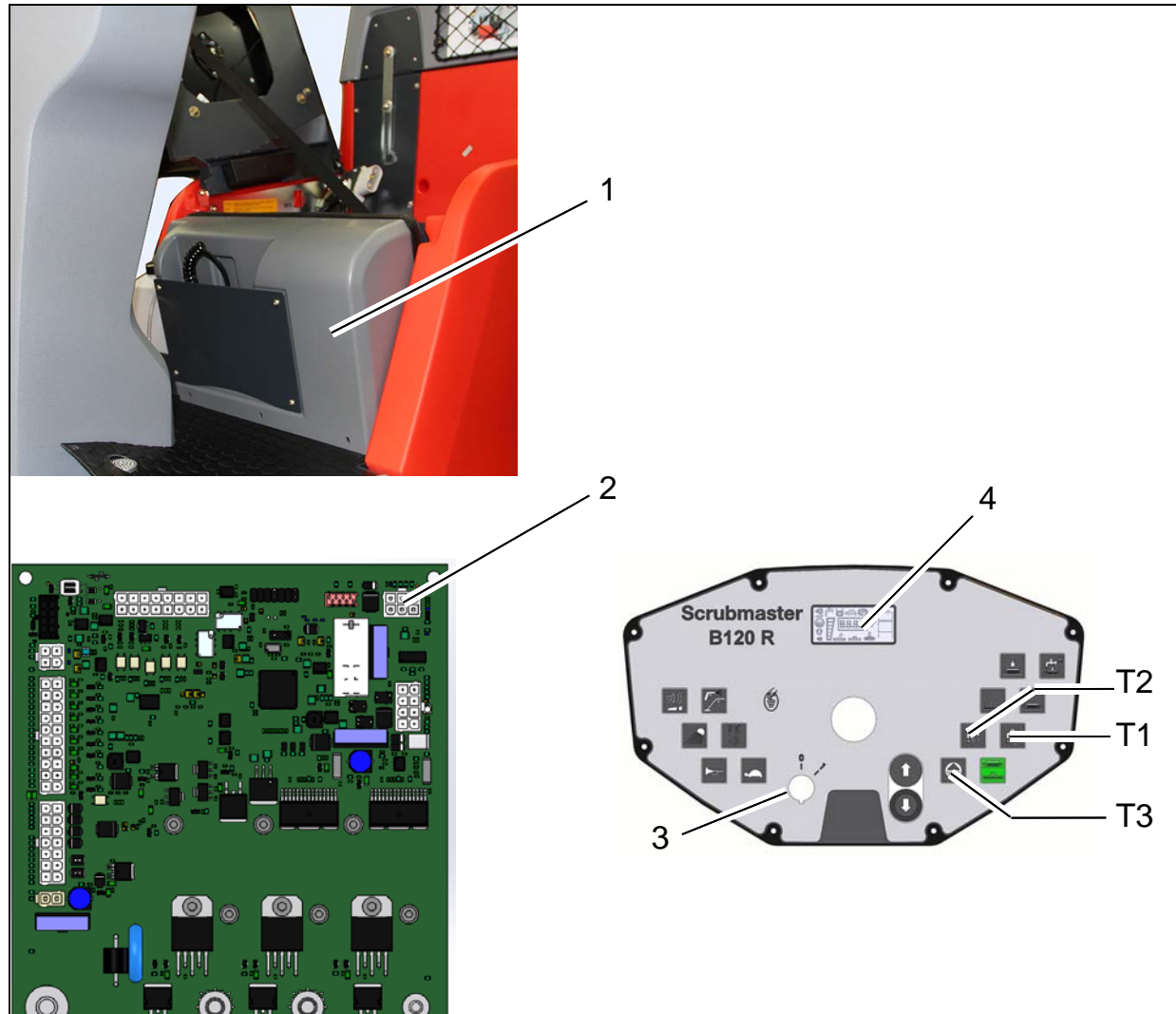


Fig. 8

On-board dosing system

1.8.2 Setting in the Configuration menu

Requirements:

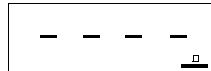
- Batteries inserted
- Diagnosis plug 97097737 available

Preparation:

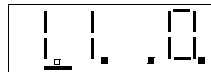
1. Place the machine on a level surface.
2. Open the seat console.
3. Remove the bolts of the cover (Fig. 8/1).
4. Carefully remove the cover from the front ensuring the plug of the on-board charger is not pulled out.
5. Connect the diagnosis plug 97097737 to plug A1.X3 (Fig. 8/2) of the control electronics A1.

Setting:

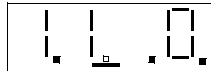
1. Open the configuration menu:
Press button 1 and button 2 simultaneously, switch on the key switch (Fig. 8/3) and hold for 3 seconds. The right-hand dot flashes in the indicator (Fig. 8/4):



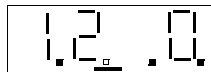
2. Press button 2 twice. The chapter is now set to 1. The dot next to 1 flashes:



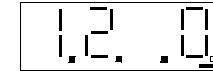
3. Press button 1 once. The dot to the right of the configuration 1 flashes:



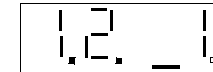
4. Press button 2 once. The configuration is now set to 2, the content is 0 (chemical dosing system not activated). The dot to the right of the configuration 2 flashes:



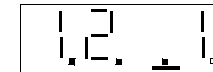
5. Press button 1 once. The dot to the right of the content 0 flashes:



6. Press button 2 once. The content changes to 1 (chemical dosing system activated). The dot to the left of the content 1 extinguishes:



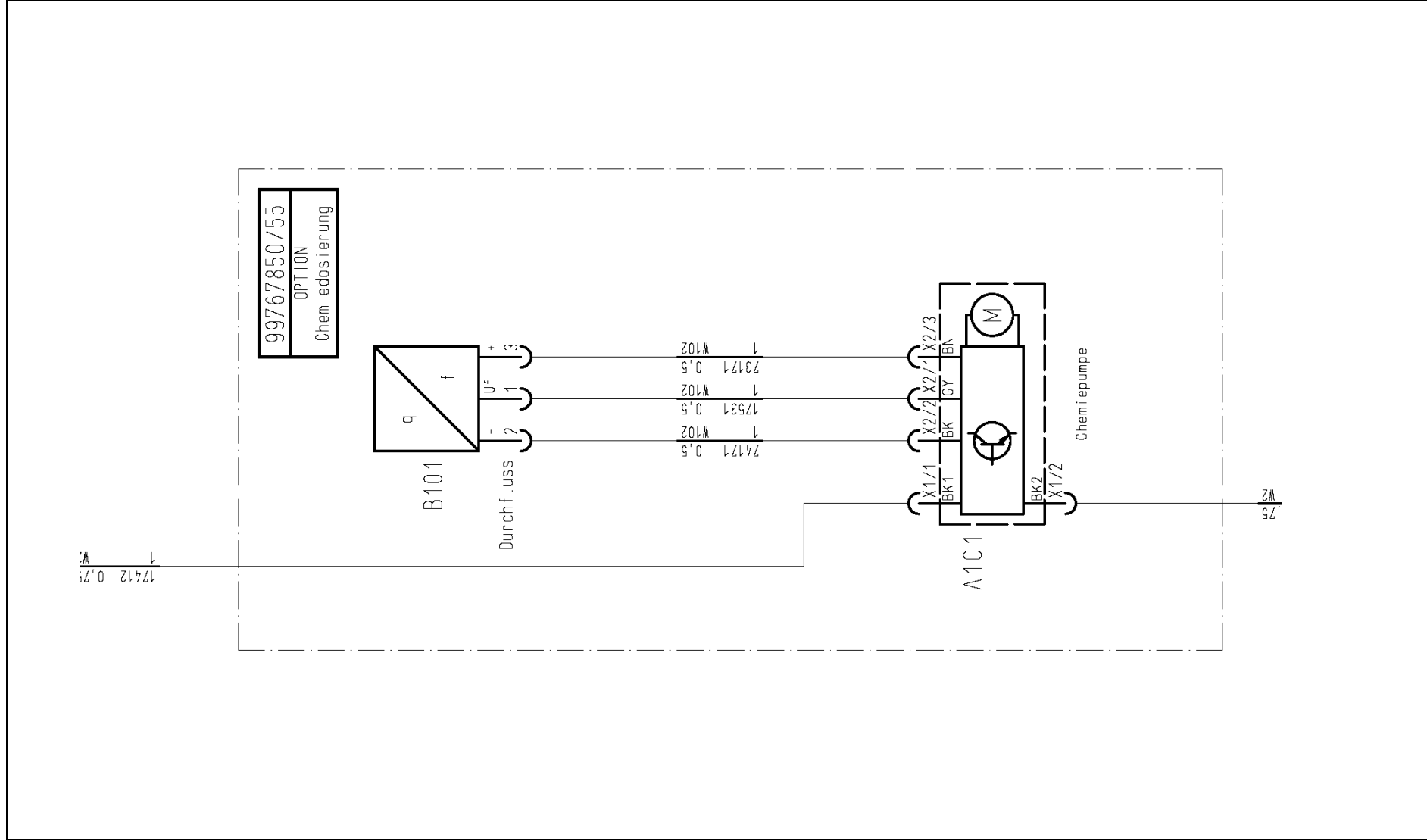
7. Press and hold button 3 for 3 seconds to save the setting. The dot to the left of the content appears:



8. The value is thus saved. Exit the menu by switching off the machine.
9. Remove the diagnosis plug (Fig. 8/2) from the control electronics and reattach the electronics housing.

On-board dosing system

1.8.3 Circuit diagram



On-board dosing system

1.9 Operation

Putting into service

1. Fill detergent into the chemicals canister.
2. Switch on the machine via the key switch.
3. Switch on the chemical dosing button (Fig. 9/1) at the control panel.
4. Press the fast fill switch (Fig. 9/2) at the dosing pump until the chemical reaches the non-return valve.

Setting the mixing ratio

1. Remove the grey cover (Fig. 9/3) at the dosing pump.
2. Set the mixing ratio according to the detergent being used.
3. Basic setting = 1:700
Set the rotary control (Fig. 9/4) to between stage 1 and 2, see table.

Maintenance

Check the hose piece (Fig. 9/5) in the dosing pump (approx. 23 mm long) and replace it if necessary.

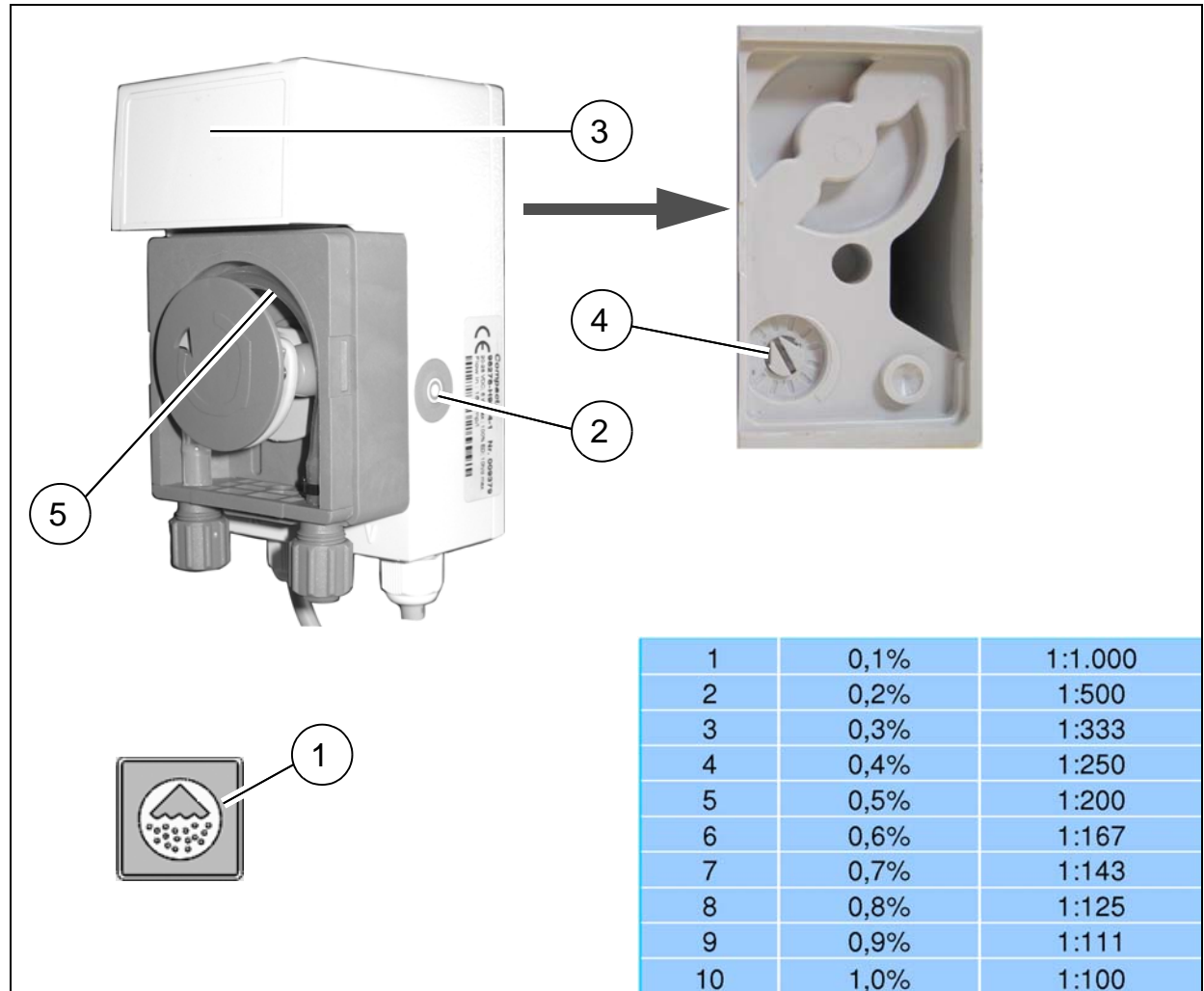


Fig. 9

Hako

Clean ahead

Advanced Technology for a Cleaner, Better Environment

88-10-3136 - 3812-00



Hako GmbH ▪ Head Office ▪ Hamburger Str. 209-239 ▪ 23843 Bad Oldesloe ▪ Germany
Phone +49 4531 806-0 ▪ Fax +49 4531 806-338