

VACUUM ASPIRATION SYSTEM

BVC basic BVC control BVC professional BVC basic G BVC control G BVC professional G VHC^{pro}



Instructions for repair





Original instructions Keep for further use!

This manual is only to be used and distributed in its complete and original form. It is strictly the user's responsibility to carefully check the validity of this manual with respect to the product.

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Thank you for purchasing this product from **VACUUBRAND GMBH + CO KG**. You have chosen a modern and technically high quality product.

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1 Introduction

Make yourself familiar with the device.

Use this manual as reference for the repair of your device.

1.1 User information

Safety

Instructions for use and safety

- Read this manual thoroughly and completely before starting repair. Keep this manual in an easily accessible location.
- Observe all safety instructions provided also in the instructions for use of the device and in the document "Safety instructions for vacuum equipment"! The document "Safety information for vacuum equipment - Sicherheitshinweise für Vakuumgeräte" is part of the instructions for use!
- In addition to this manual, adhere to any relevant local accident prevention regulations and comply with industrial safety regulations.

General

General information

- The illustrations in this manual are provided as examples. They are intended to aid in your understanding.
- VACUUBRAND GMBH + CO KG reserves the right to modify or change the product design and/or technical specifications at any time without advanced notice.

Copyright

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Contact

Contact us

- Please ask for replacement in case of incomplete instructions for use. Alternatively, you can download instructions for use on our web page: www.vacuubrand.com.
- Contact us regarding any questions about this product, if you need further information, or to provide us with feedback.
- When contacting our Customer Service Department, please be sure to have the data from the rating plate.

1.2 About this document

1.2.1 Symbols and icons

Safety symbols



General danger sign.



Caution! Electrical voltage!



Disconnect equipment from AC power.



Read manual.

Additional icons



Attention!

Observe precautions for handling electrostatic sensitive devices.

Convention for additional notes



Refers to content of other documents.

Additional notes

IMPORTANT! Information or specific use recommendation, which must be observed.



- ⇒ Helpful tips
- ⇒ Additional information

1.2.2 Display conventions

Warning levels

Convention for warnings



DANGER

Indicates an imminent hazardous situation.

Disregarding the situation will result in serious and even fatal injury or death.

⇒ Take appropriate action to avoid dangerous situation!



WARNING

Indicates a potentially hazardous situation.

Disregarding the situation could result in serious, even fatal injury or massive damage to property.

⇒ Observe instruction to avoid dangerous situation!



CAUTION

Indicates a potentially hazardous situation.

Disregarding the situation could result in slight or minor injury or damage to property.

⇒ Observe instruction to avoid dangerous situation!

Individual step (single step)

Design of steps

- ⇒ Do the described step.
 - ☑ Result of action.

Multiple steps

Graphic

- 1. First step,
- 2. next step.
 - ✓ Result of action.

Follow steps in the described order.

2 Safety instructions

All safety instructions must be observed by all individuals working with the products described here.

Maintenance and repair are intended to ensure the functional condition or the return to function in the event of a failure.

Repair includes troubleshooting and remedy.

2.1 Target groups

Qualified personnel

Maintenance and repair may only be carried out by suitable qualified personnel.

The qualified personnel has to carry out the necessary work in accordance with the statutory requirements (e.g., safety at work, environmental protection).

The function and safety of the device must not be impaired.

The qualified personnel must be adequately informed of the risk involved in their intervention.

The qualified personnel must be adequately informed of potentially hazardous substances in the device.

2.2 Safety precautions

Quality standards and safety

Products of **VACUUBRAND GMBH + CO KG** are subject to high quality tests with goals for safety and operation. Prior to delivery each product has been tested thoroughly.

Nevertheless, during operation unforeseen dangerous situations may occur which may lead to injuries or damage of property. Therefore observe the following chapter and take the appropriate safety precautions.

2.2.1 Personal responsibility

Qualification and personal responsibility

Ensure that only authorized and skilled personnel works with the equipment. This is particularly important with regard to trouble-shooting and remedy.

- ⇒ Carefully read these instructions for repair before starting work.
- ⇒ Replace wear parts regularly.
- ⇒ Never operate a defective or damaged device.
- ⇒ Personal safety has top priority!
- ⇒ Always be conscious of safety.
- ⇒ Observe the owners' directives at work, the national accident prevention regulations and occupational safety provisions.

2.2.2 Eliminate sources of danger

Use only in proper working condition

Only use the vacuum system when it is in proper working condition.

⇒ Carry out maintenance and repair outside the hazardous area, i.e., outside potential explosive atmospheres.

Safe work

The owner must determine additional protective measures to ensure safe personal protection if work has to carry out inside a hazardous area.

- ⇒ Observe the operating instructions of the owner.
- ⇒ Switch off the device prior to maintenance and repair.
- ⇒ Secure the device against restarting.

Dangerous voltage

Parts may carry dangerous voltages for some minutes even when the device is switched off.

To avoid fatal injuries to not carry out any work during this period.

- ⇒ Mark activities at the device appropriately, e. g. using a instruction plate. Ensure that the instruction plate is available also during temporary interruption.
- ⇒ Afterwards restore the protective equipment immediately, if you have deactivated safety functions and protective equipment due to maintenance or repair work.

- ⇒ Replace defective components by new components with the same order number or by equivalent components.
- ⇒ Prevent the entry of liquids or dust in the device.

Health hazards

The device may be contaminated with substances dangerous to health or otherwise dangerous substances.

Decontaminate or clean the device prior to maintenance or repair, if necessary.

Observe safety and protective measures when working with hazardous substances.

Ask regularly for actual material safety data sheets.

Observe the owners' hazardous substances operating instructions.

Wear your personal protective equipment.

2.3 Environmental protection

Observe environmental regulation Observe the national and international environmental regulations for disposal of your product as well as spare parts. This applies particularly to all components that are contaminated with hazardous substances.

Dispose of chemicals, e. g., cleaning agent, according to regulations.

Scrapping and waste disposal

Proper disposal

As a result of increased environmental awareness and more stringent general requirements imposed by environmental legislation, a proper scrapping and disposal of no longer usable or non-reparable equipment is required.



If you wish to dispose of a VACUUBRAND electrical or electronic device, this must be done separately from unsorted municipal waste. This is indicated by the symbol of the crossed-out wheelie bin (see illustration).

VACUUBRAND offers to dispose of your device with this symbol for you.

To do this, please contact our service team.

Please note the data privacy rules and delete all data on the device.

service@vacuubrand.com

Tel.: +49 9342 808 5660

3 Notes concerning repair

IMPORTANT! Replace defective parts in any case.

3.1 Lifetime when used as intended

Part	Operating hours
Diaphragm	15000
Valve	15000
Motor capacitor	10000 - 40000
Motor bearing	40000



WARNING

Risk of injury due to a disassembled device.

Operating a disassembled device may lead to personal injury.

- ⇒ Never operated a opened or disassembled device.
- Ensure that a disassembled device never starts unintentionally.



WARNING

Damage due to an overaged motor capacitor.

If an old motor capacitor fails, the capacitor may get hot. It may even melt or emit a flame,

- Check every capacitor regularly by measuring its capacity and estimating its operation time. Exchange old capacitors early enough to prevent a failure.
- ⇒ The capacitors have to be replaced by a qualified electrician.



CAUTION

Damage due to defective wear parts.

Defective wear parts may lead to failure of the device.

Wear parts have to be replaced in time.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.

3.2 Prior to maintenance and repair

Preparation

Genuine spare parts

⇒ Use only genuine spare parts and accessories.

When using components of other manufacturers the safety and performance of the equipment as well as the electromagnetic compatibility of the equipment might be reduced.

Possibly the CE mark or the C/US conformity (see rating plate) becomes void if not using genuine spare parts.

- ⇒ Check that the required tools and parts are available and of the correct type before you start your work.
- Check the operating sequence mentally using exploded view drawings, spare parts lists and circuit diagram on feasibility, safety requirements and consequences on safety and function of the equipment.
- ⇒ Vent the device.

⇒ Allow the device to cool down.

- ⇒ Separate the device from mains prior to maintenance or repair. Switch off the device and unplug.
- ⇒ Allow the capacitors to discharge.
- ⇒ Ensure ESD protection measures at the workplace.







3.3 After maintenance or repair

Testing

Testing

Check operability and safety after maintenance and repair.

⇒ Check the safety of the device according to IEC 61010 and national regulations.

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⇒ Check the ultimate vacuum of the pump after maintenance and repair.



The pump achieves its ultimate vacuum if switching off at an atmospheric pressure > 1000 mbar absolute, a maximum underpressure of 850 mbar (8 LEDs glow) and a leak-free apparatus.

BVC professional / G



⇒ Adjust the liquid level sensor if necessary.

Adjusting the liquid level sensor is described in the instructions for use of the device.

3.4 Replacing diaphragms and valves



Inspection and maintenance of the pump heads and **replacement of diaphragms and valves** is described in the instructions for use of the device.

Please ask for replacement in case of missing instructions for use. Alternatively, you can download instructions for use on our web page: www.vacuubrand.com.



In case of problems return the device to the factory for inspection or repair if necessary.

⇒ Observe section "Service".

4 Replacing the main switch



Spare part

Main switch (20635239)



Tool

Torx screw driver TX20
Torx torque screw driver TX20



DANGER

Danger of electric shock.

A defective main switch will result in an electrical shock.

- ⇒ Replace a defective main switch immediately.
- ⇒ Replacement of the main switch must be carried out by a qualified electrician.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.





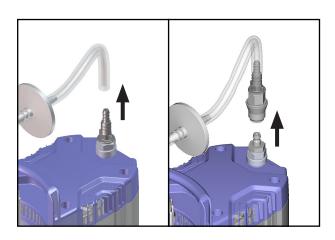
CAUTION

Electrostatic discharge (ESD).

Electronic components can be damaged or destroyed if ESD protection measures are not observed.

⇒ Ensure ESD protection measures at the workplace.

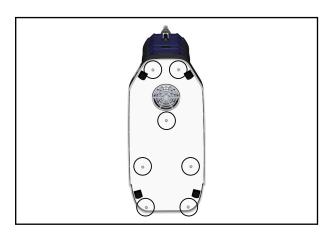




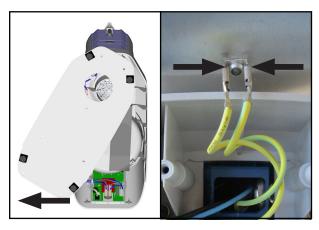
1. Depending on BVC version, remove connection tubing at the hose nozzle or detach quick coupling.



2. Remove bottle from support.



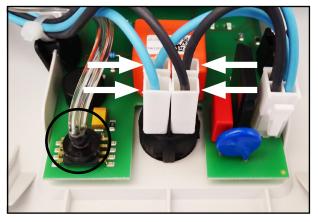
- 3. Lay down the BVC as shown.
- 4. Unscrew screws at the base plate.



- 5. Put the base plate to one side.
- ⇒ It is not necessary to disconnect the earth cables.



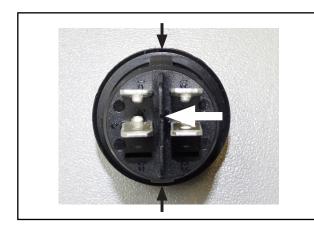
IMPORTANT! Ensure ESD protection measures at the workplace.



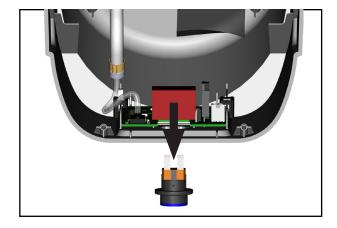
- ⇒ Note: The illustration may show a circuit board in a different version to the one contained in your device.
- ⇒ The pressure sensor (see mark) is sensitive to electrostatic discharge.
- ⇒ Do not touch the pressure sensor.
- ⇒ Observe ESD protection measures!
- 6. Mark the cables if necessary.



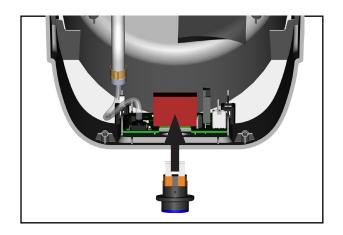
- 7. If necessary, note the position of the cables on the switch (1a, 1b, 2a, 2b)
- 8. Disconnect the cables from the switch.



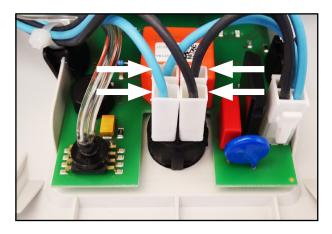
- 9. Press the tabs at the main switch together and press the bottom of the main switch.
- ⇒ The illustration shows the tabs on the switch.



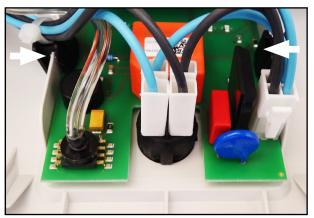
10. Remove the main switch from housing.



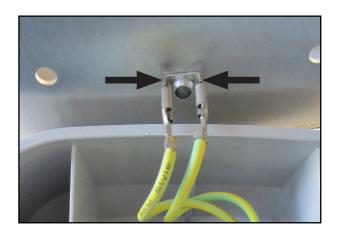
- 11. Take care of the lugs at the main switch and the recesses provided in the housing when assembling the main switch.
- 12. Insert the new main switch in the housing.



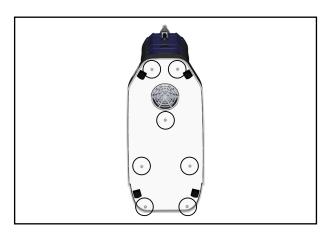
13. Plug the cables on the main switch correctly.



- 14. Check the firm seat of the circuit board.
- 15. Press the mounting clips if necessary.



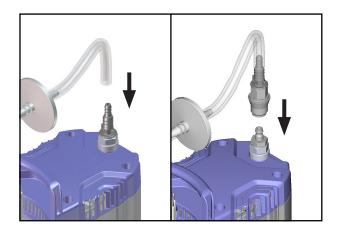
16. Check the firm seat of the earth cables at the base plate.



- 17. Position the base plate.
- 18. Screw the base plate, max. torque 1.5 Nm.



- 19. Position the BVC on the feet.
- 20. Position bottle in the support.



21. Depending on BVC version, position tubing to hose nozzle or quick coupling.

IMPORTANT!

- ⇒ Check operability and safety after repair.
- ⇒ Check the safety of the device according to IEC 61010 and national regulations.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.

5 Replacing the motor capacitor

Spare part capacitor on request

Please be sure to include the serial number of the device with your request.



Tool



Torx screw driver TX20
Torx torque screw driver TX20
Open-ended wrench SW 13, 17, 19



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.

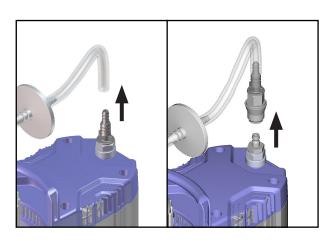


WARNING

Damage due to an overaged motor capacitor.

If an old motor capacitor fails, the capacitor may get hot. It may even melt or emit a flame.

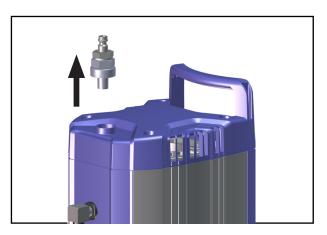
- Check every capacitor regularly by measuring its capacity and estimating its operation time. Exchange old capacitors early enough to prevent a failure.
- ⇒ The capacitors have to be replaced by a qualified electrician.



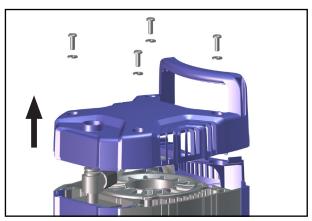
1. Depending on BVC version, remove connection tubing at the hose nozzle or detach quick coupling.



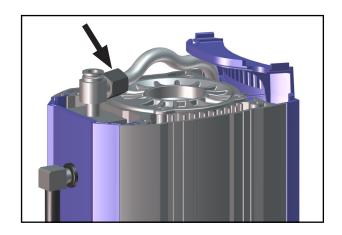
2. Remove bottle from support.



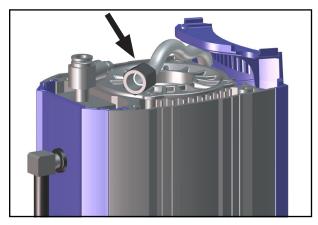
3. Depending on BVC version, unscrew the hose nozzle or the coupling.



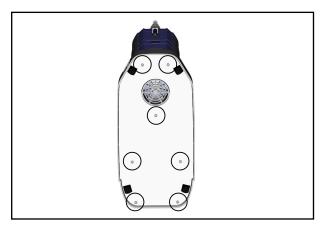
- 4. Unscrew the cover.
- ⇒ Pay attention to washers.



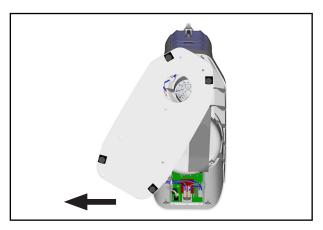
5. Loosen the union nut.



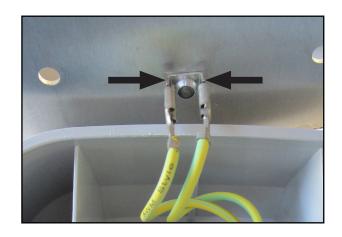
6. Turn away hose from hose connector.



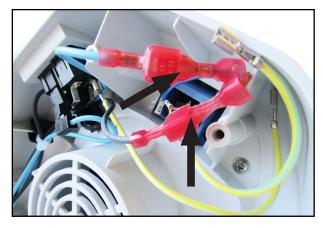
- 7. Lay down the BVC as shown.
- 8. Unscrew screws at the base plate.



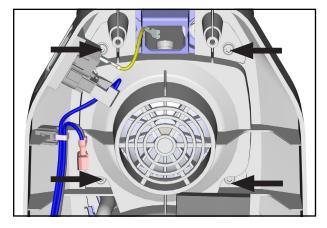
9. Put the base plate to one side.



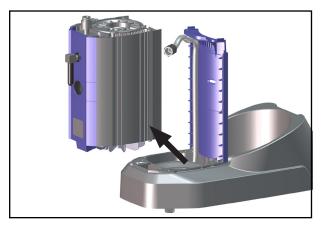
10. Pull both earth cables from base plate.



- ⇒ Electronic components are sensitive to electrostatic discharge (ESD).
- ⇒ Observe ESD protective measures.
- 11. Disconnect the two plug connections.

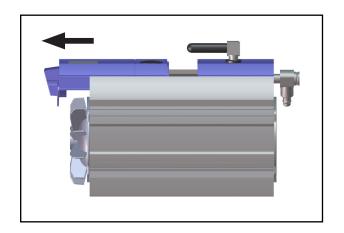


12. Unscrew the four screws fixing the motor.

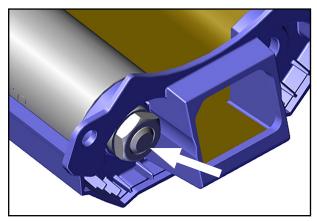


- 13. Hold the pump and position the BVC on the feet.
- 14. Lift the pump from holder.

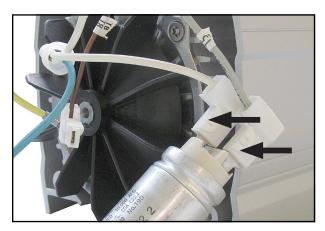




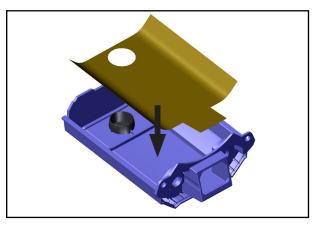
- 15. Place the pump as shown.
- 16. Remove the blind.



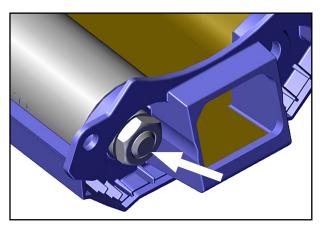
17. Unscrew the motor capacitor.



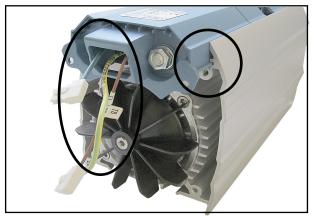
- 18. Pull both cables at the motor capacitor.
- 19. Attach both cables to the new motor capacitor.



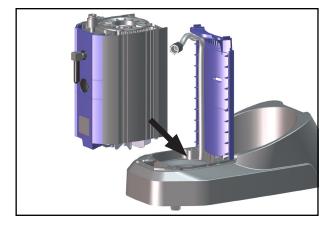
- ⇒ Depending on the year of manufacture of the BVC, there may be an insulating foil in the blind.
- ⇒ If an insulating foil is already present, ensure that it is positioned correctly in the cover.
- ⇒ If you have received the insulating foil with the new capacitor, place the insulating foil correctly in the cover.



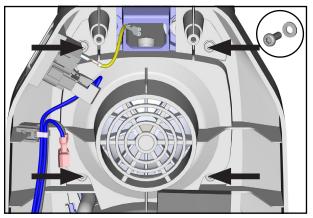
20. Screw the motor capacitor into the blind using the lock washer and the nut.



- 21. Insert the cable through the opening in the blind.
- 22. Pay attention to correct position of the blind in the housing.
- 23. Slide the blind on the pump.

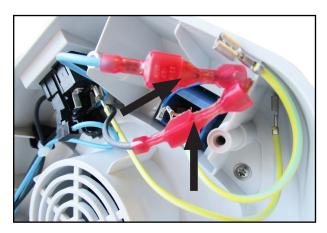


- 24. Pay attention to cables. Do not squeeze cables.
- 25. Insert the cables through the holder.
- 26. Position pump in holder.

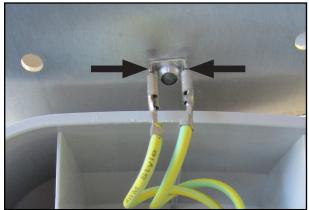


- 27. Hold the pump and lay down the BVC as shown.
- 28. Ensure the correct position of the tension washers under the screws.
- 29. Tighten the pump, max. torque: 1.5 Nm.

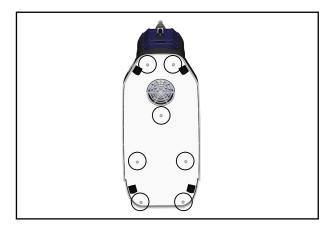




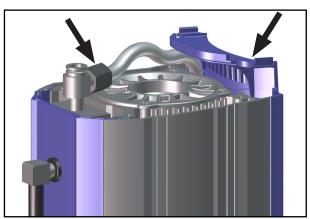
- 30. Connect the cables.
- 31. Twist the earth cables three times.



- 32. Plug the earth cables to the base plate.
- 33. Position the base plate.



- 34. Screw the base plate, max. torque 1.5 Nm.
- 35. Position the BVC on the feet.



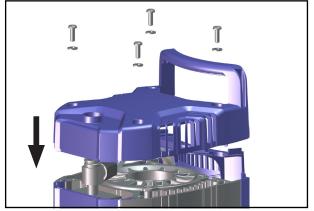
- 36. Connect hose to hose connector.
- 37. Screw the union nut.
- 38. Position blind in holder if necessary.



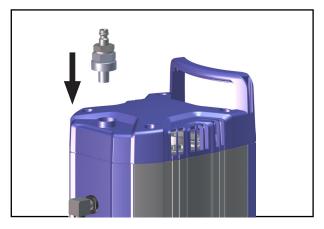
Only BVC professional / G:

During repair it may happen that the blind with liquid level sensor foil falls out from the holder.

⇒ Do not squeeze the foil cable when assembling the blind.



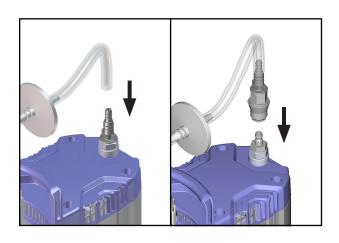
- 39. Ensure that the tension washers are positioned correctly under the screws.
- 40. Screw the blind tight, max. torque: 1.5 Nm.



41. Depending on BVC version, screw coupling or hose nozzle.



42. Position bottle in the support.



43. Depending on BVC version, position tubing to hose nozzle or quick coupling.

IMPORTANT!

- ⇒ Check operability and safety after repair.
- Check the safety of the device according to IEC 61010 and national regulations.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.





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- ⇒ Adjust the liquid level sensor after repair.
- ⇒ The adjustment of the liquid level sensor is described in the instructions for use of the BVC.

6 Replacing the circuit board



Spare part

Circuit board BVC control / professional (20612302)



Tool

Torx screw driver TX20
Torx torque screwdriver TX20
Screwdriver with flat blade 2.5 mm
Tweezers



DANGER

Danger of electric shock.

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- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.



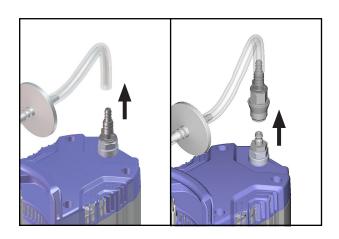
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CAUTION

Electrostatic discharge (ESD).

Electronic components can be damaged or destroyed if ESD protection measures are not observed.

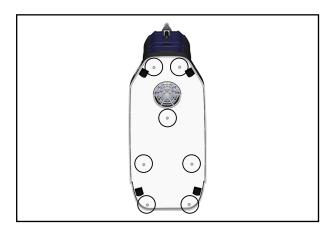
⇒ Ensure ESD protection measures at the workplace.



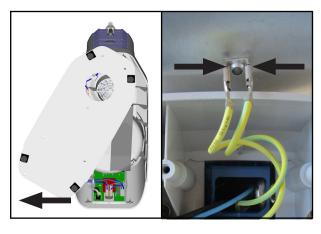
1. Depending on BVC version, remove connection tubing at the hose nozzle or detach quick coupling.



2. Remove bottle from support.



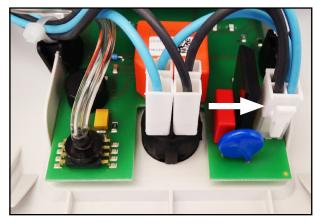
- 3. Lay down the BVC as shown.
- 4. Unscrew screws at the base plate.



- 5. Put the base plate to one side.
- ⇒ It is not necessary to disconnect the earth cables.



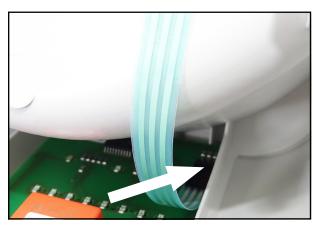
IMPORTANT! Ensure ESD protection measures at the workplace.



- 6. Disconnect the plug with the cables from the circuit board.
- ⇒ Note: The illustration may show a circuit board in a different version to the one contained in your device.

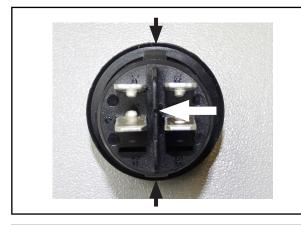


- 7. Remove the hose from the pressure sensor using tweezers.
- ⇒ The pressure sensor (see marking) is ESD-sensitive.
- ⇒ Do not touch the pressure sensor.
- ⇒ Observe ESD protective measures!

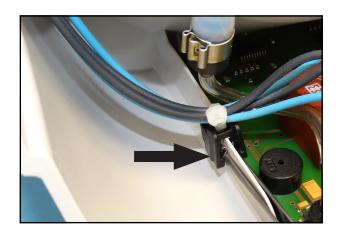


Only BVC professional / G:

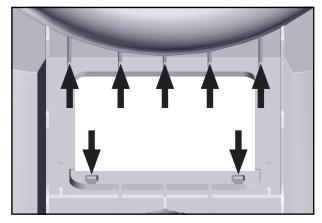
8. Unplug the ribbon cable from the circuit board.



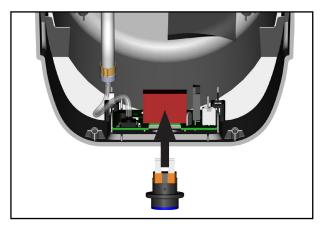
- 9. Press the tabs on the switch together and push the switch out of the housing.
- ⇒ The illustration shows the tabs on the switch.
- ⇒ The cables on the switch do not need to be disconnected.



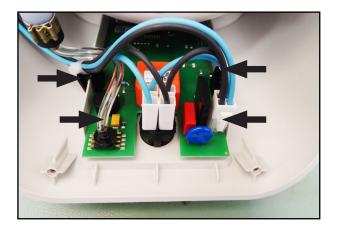
- 10. Remove both mounting clips fixing the circuit board using tweezers or a small screw driver.
- 11. Remove defective circuit board.



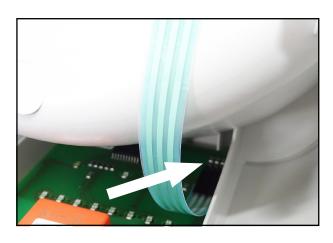
12. Insert the new circuit board in the grooves and stud bolts.



- 13. Take care of the lugs at the main switch and the recesses provided in the housing when assembling the main switch.
- 14. Insert the main switch in the housing.

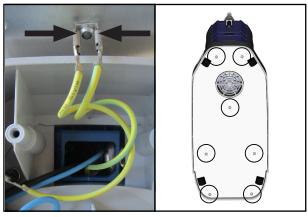


- 15. Assemble both mounting clips.
- 16. Plug the hose to the pressure sensor.
- 17. Plug the cables at the circuit board.
- 18. Check the firm seat of the circuit board.



Only BVC professional / G:

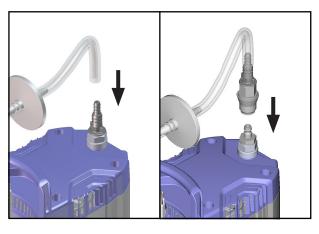
19. Plug the ribbon cable to the electronic board.



- 20. Check the firm seat of the earth cables at the base plate.
- 21. Position the base plate.
- 22. Screw the base plate, max. torque 1.5 Nm.



- 23. Position the BVC on the feet.
- 24. Place the bottle in the holder.



25. Depending on BVC version, position tubing to hose nozzle or quick coupling.

IMPORTANT!

- ⇒ Check operability and safety after repair.
- ⇒ Check the safety of the device according to IEC 61010 and national regulations.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.



- 26. Set up the BVC at the workplace.
- 27. Connect the BVC to mains.
- 28. Switch on the BVC.
- 29. Do not touch the touch panel.
- ⇒ The BVC automatically carries out an adjustment routine.

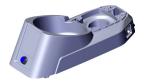




- ⇒ All LEDs of the touch panel are lit.
- 30. Wait approximately 1 minute until the pump starts.
- ⇒ The adjustment routine is complete.
- 31. Adjust suction power if necessary by using key "+" or "-".

7 Replacing the housing

Spare part



Conversion kit housing BVC control (22618905)
Conversion kit housing BVC professional (22618904)



Tool

Torx screw driver TX20
Torx torque screw driver TX20
Open-ended wrench size 19



DANGER

Danger of electric shock.

A defective main switch will result in an electrical shock.

- ⇒ Replace a defective main switch immediately.
- ⇒ Replacement of the main switch must be carried out by a qualified electrician.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.



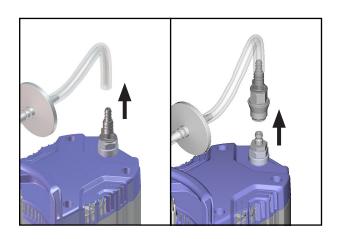


CAUTION

Electrostatic discharge (ESD).

Electronic components can be damaged or destroyed if ESD protection measures are not observed.

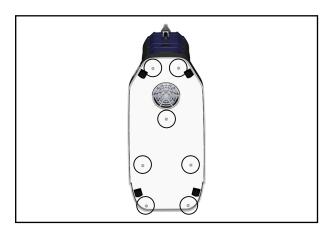
⇒ Ensure ESD protection measures at the workplace.



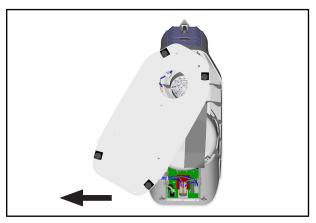
1. Depending on BVC version, remove connection tubing at the hose nozzle or detach quick coupling.



2. Remove bottle from support.



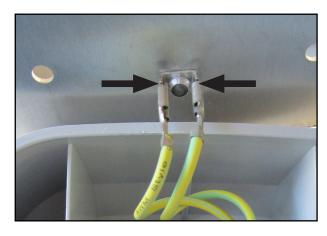
- 3. Lay down the BVC as shown.
- 4. Unscrew screws at the base plate.



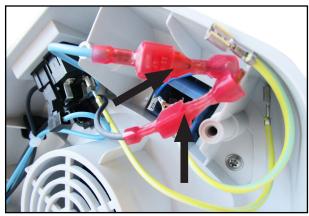
5. Put the base plate to the side.



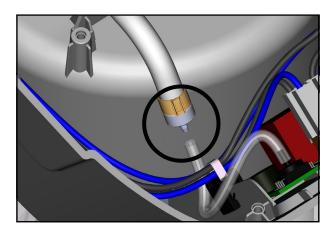
IMPORTANT! Ensure ESD protection measures at the workplace.



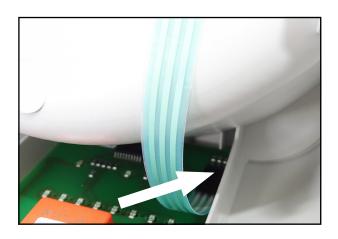
6. Pull both earth cables from base plate.



7. Disconnect the two plug connections.



8. Remove hose carefully from adapter.



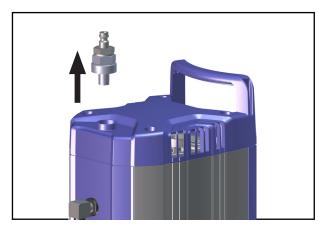
Only BVC professional / G:

9. Unplug the foil cable from the circuit board.

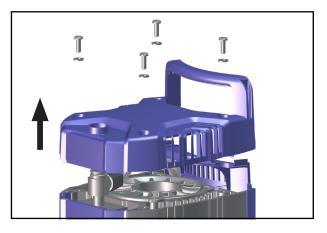


Only BVC professional / G:

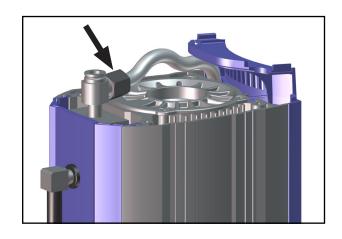
10. Remove the foil cable carefully from the housing base.



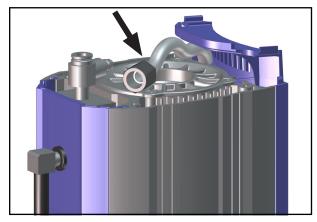
- 11. Position the BVC on the feet.
- 12. Depending on BVC version, unscrew the hose nozzle or the coupling.



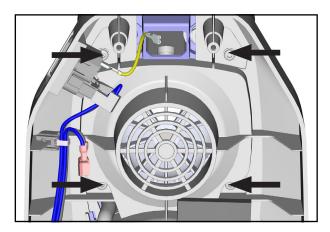
- 13. Unscrew the cover.
- ⇒ Pay attention to washers / clamping discs.



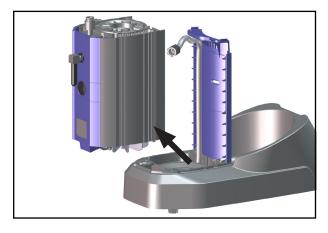
14. Loosen the union nut.



15. Turn away hose from hose connector.



- 16. Lay down the BVC.
- 17. Unscrew the four screws fixing the motor.



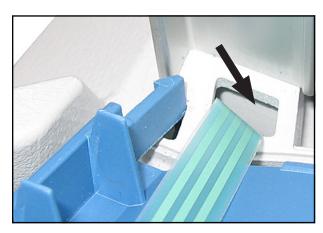
- 18. Hold the pump and position the BVC on the feet.
- 19. Lift the pump from holder.



- 20. Remove the blind and the hose from housing.
- ⇒ Do not damage the foil cable.

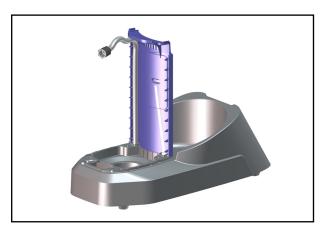


21. Postion the hose in the **new housing**.

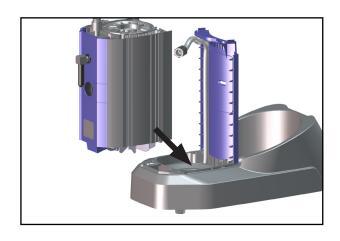


Only BVC professional / G:

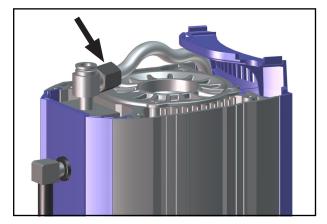
22. Insert the foil cable through the holder.



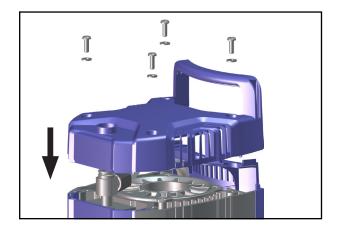
- 23. Position the blind in the housing.
- ⇒ Do not squeeze the foil cable when assembling the blind.



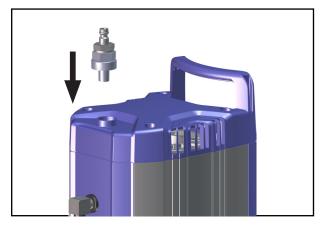
- ⇒ Pay attention to cables. Do not squeeze cables.
- 24. Insert the cables through the holder.
- 25. Position pump in holder.



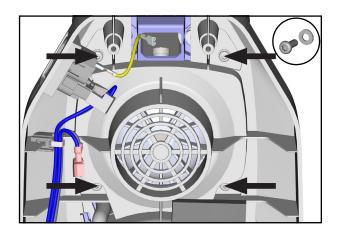
- 26. Connect hose to hose connector.
- 27. Screw the union nut.



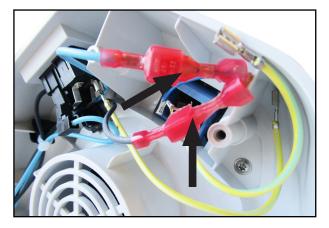
- 28. Ensure that the tension washers are positioned correctly under the screws.
- 29. Screw the blind tight, max. torque: 1.5 Nm.



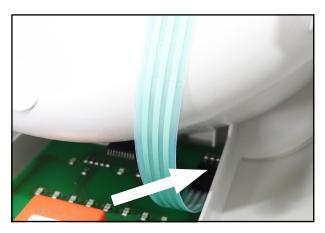
30. Depending on BVC version, screw coupling or hose nozzle.



- 31. Hold the pump and lay down the BVC as shown.
- 32. Ensure the correct position of the tension washers under the screws.
- 33. Tighten the pump, max. torque: 1.5 Nm.



34. Connect the cables.



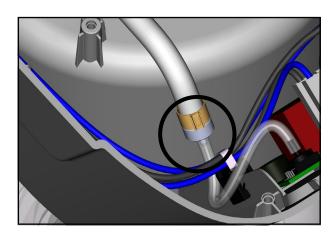
Only BVC professional / G:

35. Plug the foil cable to the electronic board.

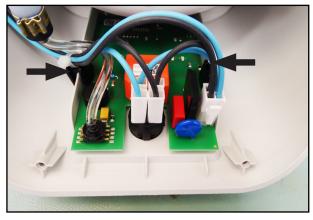


Only BVC professional / G:

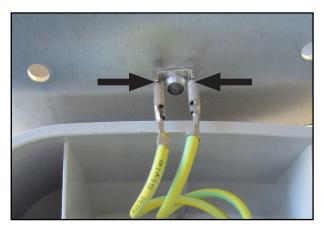
36. Remove the protective foil from the housing base and stick the foil cable at the housing base.



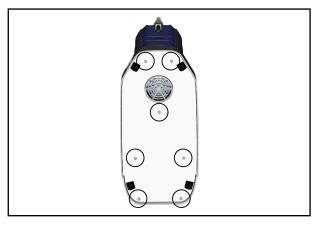
37. Connect the hose to the adapter.



38. Check the firm seat of the circuit board.



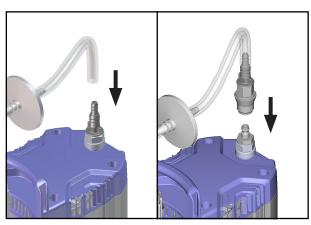
- 39. Twist the earth cables three times.
- 40. Plug the earth cables to the base plate.



- 41. Position the base plate.
- 42. Screw the base plate, max. torque 1.5 Nm.



- 43. Position the BVC on the feet.
- 44. Position bottle in the support.



45. Depending on BVC version, position tubing to hose nozzle or quick coupling.

IMPORTANT!

- ⇒ Check operability and safety after repair.
- ⇒ Check the safety of the device according to IEC 61010 and national regulations.



DANGER

Danger of electric shock.

Improperly executed repairs will result in an electrical shock.

- ⇒ Check the electrical safety of the device according to IEC 61010 and national regulations after repair.
- ⇒ Check the protective conductor resistance.
- ⇒ Check the insulation resistance.
- ⇒ Carry out a high voltage test.
- ⇒ Check the leakage current.



- 46. Set up the BVC at the workplace.
- 47. Connect the BVC to mains.
- 48. Switch on the BVC.
- 49. Do not touch the touch panel.
- ⇒ The BVC automatically carries out an adjustment routine.

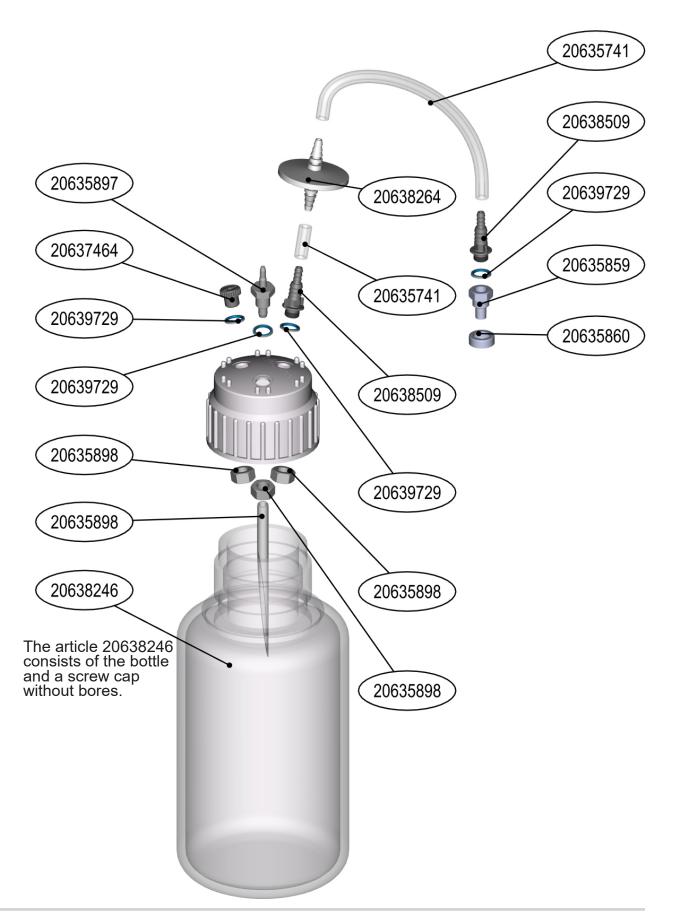




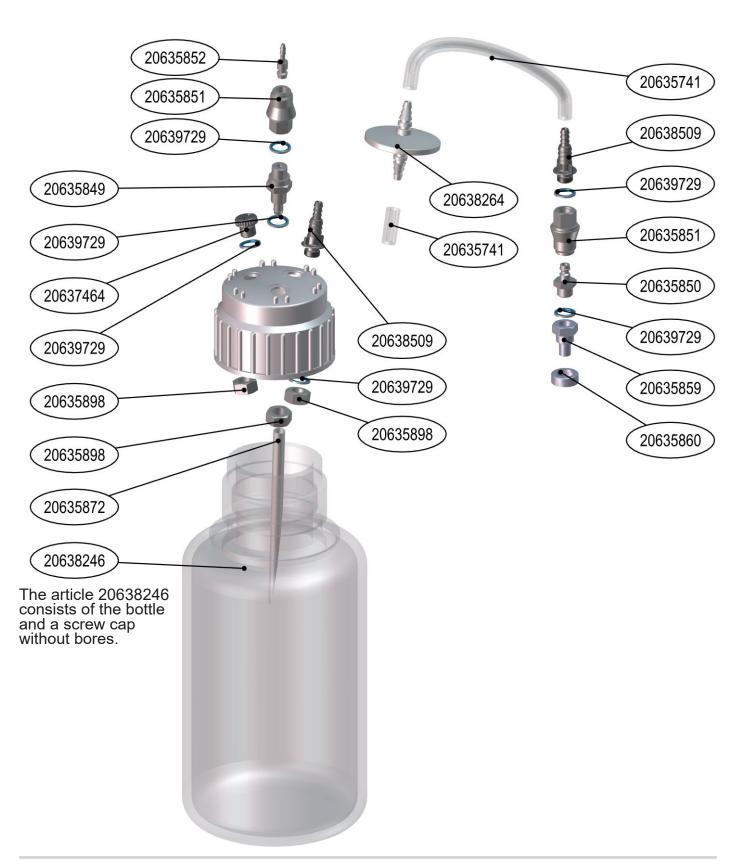
- 50. All LEDs of the touch panel are lit.
- 51. Wait approximately 1 minute until the pump starts.
- ⇒ The adjustment routine is complete.
- 52. Adjust suction power if necessary by using key "+" or "-".

8 Exploded drawing

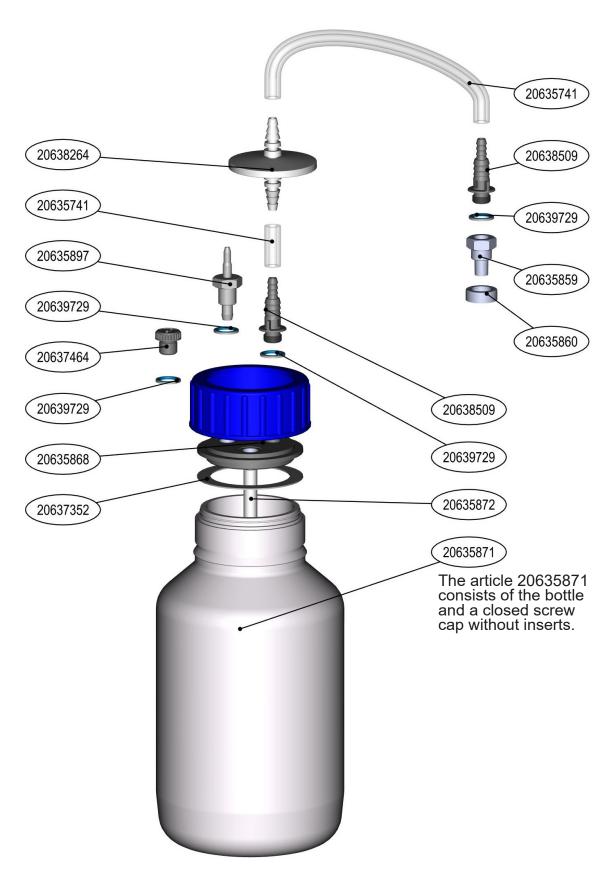
BVC polypropylene bottle without coupling



BVC polypropylene bottle withcoupling

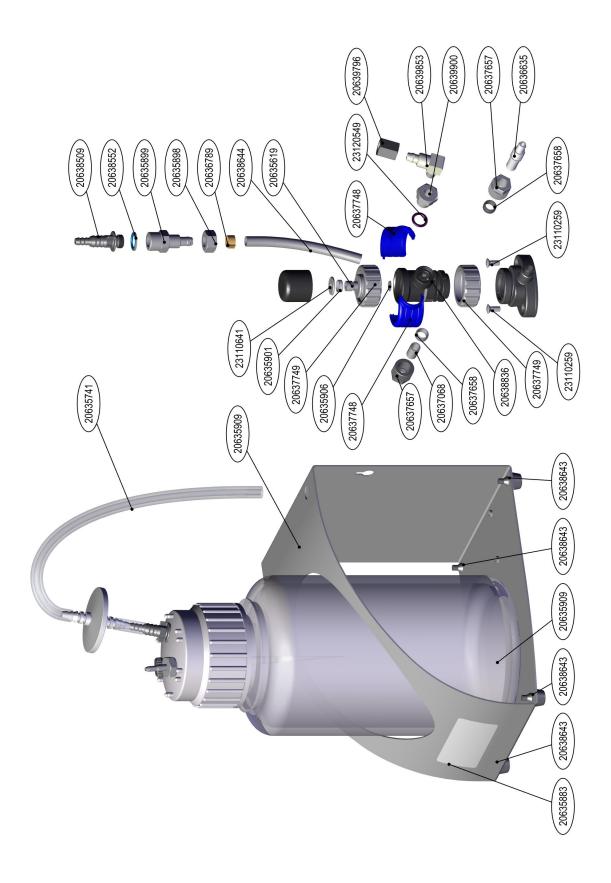


BVC glass bottle

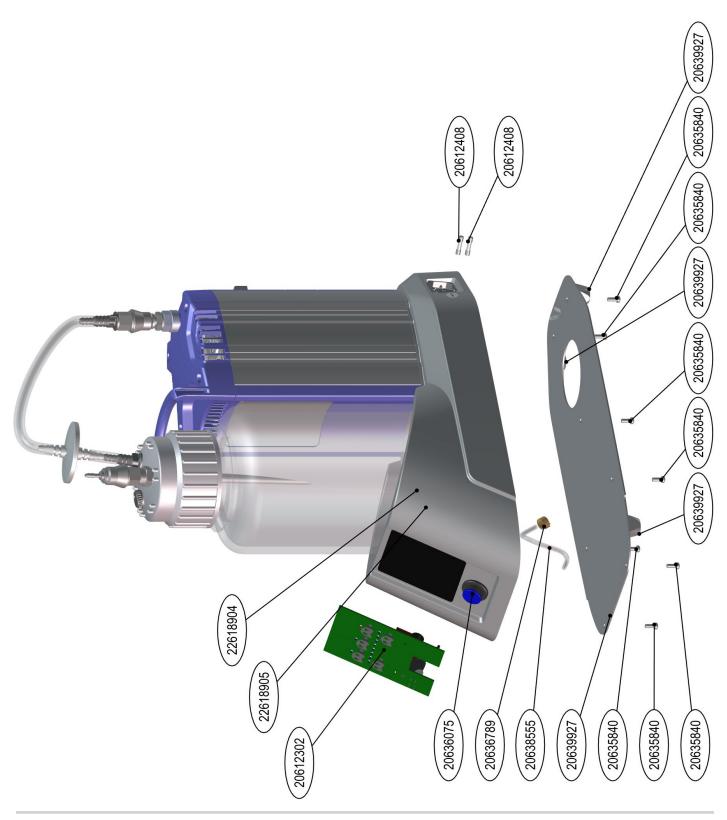


Attention: The seal 20637352 has a thickness of 2 mm. If an old seal with a thickness of 1 mm is replaced, please also order a new cover insert 20635868.

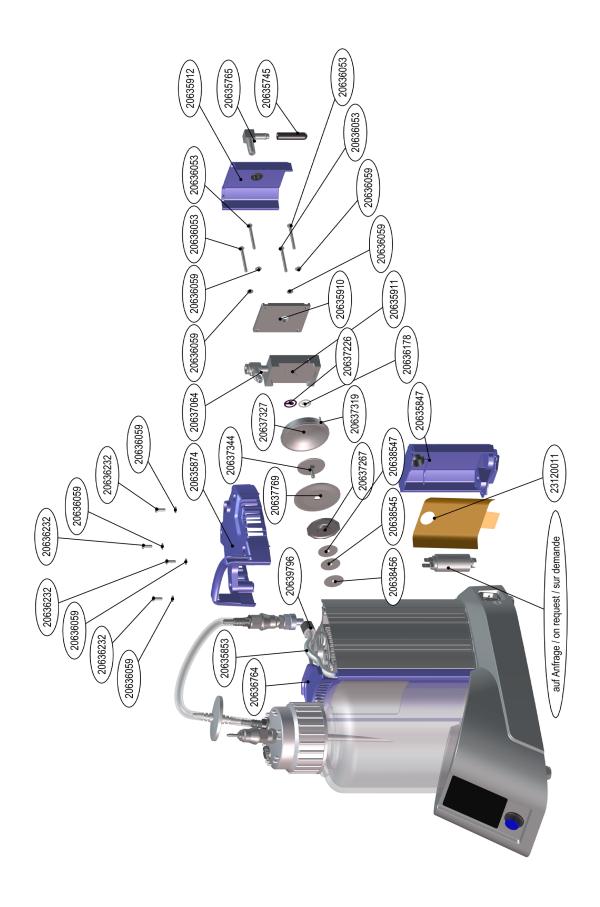
BVC basic



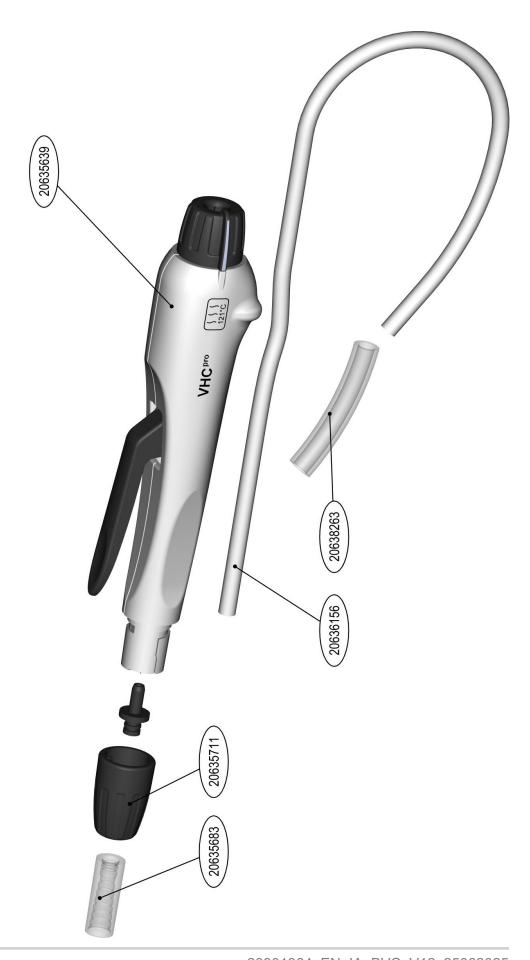
BVC control / professional



BVC control / professional



VHC PRO



9 Spare parts

Bezeichnung Designation Platine BVC ControllProfessional " ersetz ArtNr. Solof 2770" - Solof				
Platine BVC Control/Professional ** secessional 25 (1977) 2012770 ** Control/Professional 4* secessional 25 (1977) 2012770 ** Control/Professional 4* secessional 25 (1977) 2012770 ** Control/Professional 4* secressional 25 (1977) 2012770 ** Control/Professional 4* secressional 25 (1977) 2012770 ** Control/Professional 25 (3ezeichnung	Designation	Désignation
Steherung 5x20 2,5AT, Mindestbestellmenge 10 St. Stempel mit Membrane WHCpro Basistell als Ersaztlell, ohne Saugschlauch, Schlauch, Silkon, 126 mm Kappe, geschlitzt Linsenkopischraube MAx10mm, Torx Gehäusedeckel Rückseite BVC Durchführung G1/4-C1/4-108mm Stecker BVC Durchführung G1/4-C1/4-108mm Stecker BVC Durchführung G1/4-C1/4-108mm Stennelkurpbung Schnelkurpbung Schnelkurpbung Schnelkurpbung Schnelkurpbung Schnelkurpbung Schnelkurpbung Schlauch, gerade, PTFE, 108 mm Frape Schlauch gerade, PTFE, 108 mm für BVC Schlauch, gerade, PTFE, 108 mm für BVC Schlauch gerade, PTFE, 108 mm für BVC Schlauch Schlauch gerade, PTFE, 108 mm für BVC Schlauch Schlauc		Platine BVC Control/Professional ** ersetzt ArtNr. :0612770 **	Electronic board BVC Control/Professional ** seccessor no of the catno. 20612770 **	Carte électronique BVC Control/Professional ** N° de remplacement de la référence 20612770 **
Stempel mit Membrane Stempel mit Membrane WHChro Basistell als Ersatzleil, ohne Saugschlauch, WHChro Base part as spare part, wo suction tubing, ohne Adapter and ohne Zubehör Blende BVC Adapter für Pipetten Schlauch, Sillkon, 12/6 mm Kappe, geschlitzt Linsenkopischraube MAx10mm, Torx Berinde BVC Adapter for pipettes Schlauch, Sillkon, 12/6 mm Stecker für Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Cap, slotted Lead-through G1/4-G1/4-10/8mm Rappe Authorinkung G1/4-G1/4-10/8mm Rappe Cap, slotted Lead-through G1/4-G1/4-10/8mm Stecker für Schnellkupplung Cap and hose, PTEE, 10/8 mm Cap and hose, PTEE, 10/8 mm Cap and hose, PTEE, 10/8 mm für BVC Schlauch, gerade, PTEE, 10/8 mm für BVC Schlauch gerade, PTEE, 10/8 mm für BVC Cover BVC Schlauch gerade, PTEE, 10/8 mm Cap Durchführung G1/4-G1/4-10/8mm D		19	Fuse 5x20 2,5AT, minimum order quantity 10 pcs.	Fusible 5x20 2,5AT, quantité minimum de commande est de 10 pièces
WHCpro Basisteli als Ersatzteli, ohne Saugschlauch, WHCpro base part as spare part, who suction tubing, who adapters and who accessories Blende BVC Adapter for pipettes Schaubkappe für VHCpro Schlauch, Sillkon, 12/6 mm Hose, sillcone, 12/6 mm Hose, straight, PTE, 10/8 mm Hose, 12/6 mm Hose, straight, PTE, 10/8 mm for BVC Hose, PTE, PTE, PTE, PTE, PTE, PTE, PTE, PTE		stempel mit Membrane	Plunger with diaphragm	Poussoir avec membrane
Blind BVC Adapter für Pipetten Schaubkappe für VHCpro Schlauchkappe für VHCpro Schlauch, Silkon, 12/6 mm Kappe, geschlitzt Linsenkopfschraube M4x10mm, Torx Gehäusedeckel Rückseite BVC Durchführung G1/4-G1/4-10/8mm Stecker für Schnellkupplung Schnellkuppl		/HCpro Basisteil als Ersatzteil, ohne Saugschlauch, ohne Adapter und ohne Zubehör	VHCpro base part as spare part, w/o suction tubing, w/o adapters and w/o accessories	VHCpro base, comme pièce de rechange, sans tuyau d'aspiration, sans adapteurs, sans accessoires
Adapter für Pipetten Schraubkappe für VHCpro Schraubkappe für VHCpro Schlauch, Silikon, 12/6 mm Kappe, geschiltzt Linsenkopfschraube M4x10mm, Torx Gehäussedeskel Rückseite BVC Durchführung G1/4-G1/4-10/8mm Stecker für Schnellkupplung Schlauch, gerade, PTFE, 10/8 mm Cap Hasche 2L Glas, mit Schraubkappe unbearbeitet Connection for hose, bridgin, PTE, 10/8 mm Cap Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Schlauchende angeschrägt Cover BVC Schlauch gerade, PTFE, 10/8 mm für BVC, ein Schlauchende angeschrägt Cover BVC Adhesive deschellen Mitter Schlauchweile DN 3/5mm, Gewinde G1/4 Bucheritriger für 41 Flasche Schlauchweile DN 3/5mm, Gewinde G1/4 Bucheritriger für 41 Flasche Spannplatte Spannplatte Gehäussedeckel Innenteil ME 1C/BVC Flackhöfschraube M4x40mm, Torx Ountent G1/4 Outel head screw M4x40mm, Torx Outel Hubbing cover front BVC Flackhöfschraube M4x40mm, Torx Outel Eduperseiter BVC Flackhö		Slende BVC	Blind BVC	Couverture BVC
Schaubkappe für VHCpro Schlauch, Silkon, 126 mm Hose, silicone, 1216 mm Hose, silicone, 1216 mm Hose, silicone, 1216 mm Kappe, geschiltzt Linsenkopfschraube M4x10mm, Torx Gehäussedeckel Rückseite BVC Gehüussedeckel Nackseite BVC Gehüussedeckel Nackseite BVC Housing cover rear side BVC Lead-through G1/4-G1/4-10/8mm Stecker für Schnellkupplung Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauchende angeschägt Rappe Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Schlauchende angeschägt Rappe Schlauch G1/4-10/8mm Funkten Schlauch G1/4-10/8mm Schlauchende angeschägt Rappe Schlauch G1/4-10/8mm Funkten Schlauchende angeschägt Rappe Schlauchende angeschägt Rappe Rappe Schlauchende angeschägt Rappe		Adapter für Pipetten	Adapter for pipettes	Adapteur pour pipettes
Kappe, geschilizt Linsenkopfschraube M4x10mm, Torx Cap, slotted Linsenkopfschraube M4x10mm, Torx Caphaisasadeckel Ruckseite BVC Lead-through G1/4-G1/4-10/8mm Stecker für Schnellkupplung Schlauch, gerade PTEE, 10/8 mm Kappe Flasche ZI Glas, mit Schraubkappe unbearbeitet Cap Flasche ZI Glas, mit Schraubkappe unbearbeitet Schlauch, gerade, PTEE, 10/8 mm für BVC Schlauch, gerade, PTEE, 10/8 mm für BVC, ein Schlauch gera		Schraubkappe für VHCpro	Screw cap for VHCpro	Bouchon fileté pour VHCpro
Kappe, geschlitzt Linsenkopfschraube M4x10mm, Torx Gerbäusedeckel Rückseite BVC Durchführung G1/4-G1/4-10/8mm Stecker für Schneilkupplung Schn		Schlauch, Silikon, 12/6 mm	Hose, silicone, 12/6 mm	Tuyau, silicone, 12/6 mm
kappe, geschlitzt Linsenkopfschraube M4x10mm, Torx Gehäusedeckel Rückseite BVC Durchführung G14-G14-10/8mm Steker für Schneilkupplung Schneilkupplung Schneilkupplung Schneilkupplung Schneilkupplung Schneilkupplung Schneilkupplung Schneilkupplung Schlauch, geformt, PTE, 10/8 mm Kappe Flasche 2L Glas, mit Schraubkappe unbearbeitet Connection for hose, PTEE, 10/8 mm Cap Flasche 2L Glas, mit Schraubkappe unbearbeitet Connection for hose, blind plug) Schlauch, gerade, PTEE, 10/8 mm für BVC Ghene Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTEE, 10/8 mm für BVC Ghone Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTEE, 10/8 mm für BVC Gover BVC Klebeschild, BVC basic Schlauchwelle DN 3/5mm, Gewinde G1/4 Durchführung G1/4-G1/4-10/8mm Druckfeder Flaschenträger für 41 Flasche Spannplate Glaschenträger für 41 Flasche Spannplate Gehäusedeckel innennteil ME 1C/BVC Gebäusedeckel innennteil ME 1C/BVC Gebäusedeckel Vorderseite BVC Gebäusede				
Linsenkopfschraube M4x10mm, Torx Gehäusedeckel Rückseite BVC Durchführung G1/4-61/4-10/8mm Stecker für Schnellkupplung Stecker für Schnellkupplung Schnellkupp		(appe, geschlitzt	Cap, slotted	Couvercle, rainuré
Gehäusedeckel Rückseite BVC Durchführung G1/4-G1/4-10/8mm Stecker für Schnellkupplung Cape Boxtle St. 10/8 mm Cap Hose, Sträight, PTFE, 10/8 mm for BVC, one hose extraight, BYC basic' Schlauch, gerade, PTFE, 10/8 mm für BVC, ein end bevelled Blende BVC Klebeschild, BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Druckfeder Schauplatte Spannplatte Spannplatte Spannplatte Spannplatte Spannplatte Clamping plate Clamping plate Clamping plate Clamping plate Clamping cover insert ME 1C/BVC Gehäusedeckelinnenteil ME 1C/BVC Flackbrant Tox Oval hoseige over front BVC		insenkopfschraube M4x10mm, Torx	Round head screw M4x10mm, Torx	Vis à tête bombée M4x10mm, Torx
Durchführung G1/4-G1/4-10/8mm Stecker für Schnellkupplung Schnellkupplug Schnellkup		Sehäusedeckel Rückseite BVC	Housing cover rear side BVC	Couvercle de carter du revers BVC
Stecker für Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellkupplung Schnellverschluss-Stecker BVC Professional Schlauch, geformt, PTFE, 10/8 mm Cap Flasche 2L Glas, mit Schraubkappe unbearbeitet Cohne Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, ennection for hose, blind plug) Schlauch, gerade, PTFE, 10/8 mm für BVC, end bevelled Schlauch, gerade, PTFE, 10/8 mm für BVC, one hose end bevelled Schlauchende angeschrägt Cover BVC Adhesive label, BVC basic' Bottle support for 4l bottle Spannplatte Bottle support for 4l bottle Gehäusedeckel Vorderseite BVC Oval lead screw M4x40mm, Tox		Durchführung G1/4-G1/4-10/8mm	Lead-through G1/4-G1/4-10/8mm	Passage G1/4-G1/4-10/8mm
Schnellkupplung Schnellkupplung Schnellkupplung Schnellverschluss-Stecker BVC Professional Schlauch, geformt, PTE, 10/8 mm Kappe Flasche 2L Glas, mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTEE, 10/8 mm für BVC Klebeschild, BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Durckfeder Schlauchwelle DN 3/5mm, thread G1/4 Gegenmutter G1/4 Durckfeder Durckfeder Spannplatte Gehäusedeckelinnenteil ME 1C/BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx	l .	stecker für Schnellkupplung	Plug for quick-coupling	Connecteur pour coupleur
Schlauch, geformt, PTEE, 10/8 mm Schlauch, geformt, PTEE, 10/8 mm Kappe Flasche 2L Glas, mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTEE, 10/8 mm für BVC Klebeschild, BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Durchführung G1/4-G1/4-10/8mm Durchführung G1/4-G1/4-10/8mm Durckfeder Spannplatte Clamping plate Clamping plate Gehäusedeckel Vorderseite BVC Flackborm, Torx Oval head screw M4x40mm, Torx		Schnellkupplung	Quick-coupling	Coupleur
Schlauch, geformt, PTFE, 10/8 mm Kappe Rabche 2L Glas, mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Hose, straight, PTFE, 10/8 mm for BVC Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Hose, straight, PTFE, 10/8 mm for BVC Schlauch gerade, PTFE, 10/8 mm für BVC, ein Hose, straight, PTFE, 10/8 mm for BVC Klebeschild, BVC basic' Adhesive label, BVC basic' Adhesive		Schnellverschluss-Stecker BVC Professional	Quick-plug for BVC Professional	Connecteur rapide pour BVC Professional
Kappe Cap Flasche 2L Glas, mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Bottle 2L glass, with cap unmachined (w/o filter, connection for hose, blind plug) Schlauch, gerade, PTE, 10/8 mm für BVC, schlauch, gerade, PTEE, 10/8 mm für BVC, ein Schlauchende angeschrägt Hose, straight, PTE, 10/8 mm for BVC Schlauch, gerade, PTEE, 10/8 mm für BVC, ein Schlauchende angeschrägt Hose, straight, PTE, 10/8 mm for BVC Bende BVC Cover BVC Klebeschild , BVC basic' Adhesive label , BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Hose nozzle DN 3/5mm, thread G1/4 Gegenmutter G1/4 Hose nozzle DN 3/5mm, thread G1/4 Durchführung G1/4-G1/4-10/8mm Lead-through G1/4-G1/4-10/8mm Durckfeder Spannplatte Spannplatte Clamping plate Gehäusedeckel Vorderseite BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval Head screw M4x40mm, Torx		Schlauch, geformt, PTFE, 10/8 mm	Formed hose, PTFE, 10/8 mm	Tuyau modelé, PTFE, 10/8 mm
Flasche 2L Glas, mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Schlauch gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC Schlauch gerade, PTFE, 10/8 mm für BVC Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Hose, straight, PTFE, 10/8 mm for BVC Schlauch gerade, PTFE, 10/8 mm für BVC, ein Hose, straight, PTFE, 10/8 mm for BVC Schlauchende angeschrägt Blende BVC Klebeschild, BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Blende BVC Klebeschild, BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Durchführung G1/4-G1/4-10/8mm Druckfeder Flaschenträger für 4I Flasche Spannplatte Spannplatte Schausedeckel Norderseite BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		(appe	Cap	Couvercle
Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Schlauchende angeschrägt Schlauchende angeschrägt Blende BVC Klebeschild ,BVC basic' Klebeschild ,BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Durckfeder Flaschenträger für 4I Flasche Spannplatte Spannplatte Gehäusedeckel Vorderseite BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Schlauch, PTFE, 10/8 mm for BVC Adhesive label ,BVC basic' Adhesiv		lasche 2L Glas, mit Schraubkappe unbearbeitet ohne Filter, Schlauchanschluss, Blindstopfen)	Bottle 2L glass, with cap unmachined (w/o filter, connection for hose, blind plug)	Flacon collecteur en verre 2L, avec bouchon brute (sans filtre, raccord de tuyau, obturateur)
Schlauch, gerade, PTFE, 10/8 mm für BVC, ein Blende angeschrägt Schlauchende angeschrägt Blende BVC Klebeschild ,BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Durckfeder Spannplatte Spannplatte Spannplatte Gehäusedeckel Norderseite BVC Flackhopfschraube M4x40mm, Torx Schlauch, BVC basic' Adhesive label ,BVC and hose label ,BVC basic straight, PTFE, 10/8 mm for BVC by and hose sorten M4x40mm, Torx		Schlauch, gerade, PTFE, 10/8 mm für BVC	Hose, straight, PTFE, 10/8 mm for BVC	Tuyau plan, PTFE, 10/8 mm pour BVC
Blende BVC Cover BVC Klebeschild ,BVC basic' Adhesive label ,BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Hose nozzle DN 3/5mm, thread G1/4 Gegenmutter G1/4 Counternut G1/4 Durchführung G1/4-G1/4-10/8mm Lead-through G1/4-G1/4-10/8mm Druckfeder Vane spring Flaschenträger für 4I Flasche Bottle support for 4I bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		schlauch, gerade, PTFE, 10/8 mm für BVC, ein schlauchende angeschrägt	Hose, straight, PTFE, 10/8 mm for BVC, one hose end bevelled	Tuyau plan, PTFE, 10/8 mm pour BVC, un bout biseauter
Klebeschild ,BVC basic' Adhesive label ,BVC basic' Schlauchwelle DN 3/5mm, Gewinde G1/4 Hose nozzle DN 3/5mm, thread G1/4 Gegenmutter G1/4 Counternut G1/4 Durchführung G1/4-G1/4-10/8mm Lead-through G1/4-G1/4-10/8mm Druckfeder Vane spring Flaschenträger für 4l Flasche Bottle support for 4l bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Slende BVC	Cover BVC	Couvercle BVC
Schlauchwelle DN 3/5mm, Gewinde G1/4 Gegenmutter G1/4 Durchführung G1/4-G1/4-10/8mm Durckfeder Flaschenträger für 4I Flasche Spannplatte Spannplatte Gehäusedeckelinnenteil ME 1C/BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Schlausedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Gegenmutter Counternut G1/4 Lead-through G1/4-G1/4-10/8mm		Klebeschild ,BVC basic'	Adhesive label ,BVC basic'	Autocollant ,BVC basic'
Gegenmutter G1/4 Counternut G1/4 Durchführung G1/4-G1/4-10/8mm Lead-through G1/4-G1/4-10/8mm Druckfeder Vane spring Flaschenträger für 4I Flasche Bottle support for 4I bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Schlauchwelle DN 3/5mm, Gewinde G1/4	Hose nozzle DN 3/5mm, thread G1/4	Embout cannelé DN 3/5mm, G1/4
Durchführung G1/4-G1/4-10/8mm Lead-through G1/4-G1/4-10/8mm Druckfeder Vane spring Flaschenträger für 4I Flasche Bottle support for 4I bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Segenmutter G1/4	Counternut G1/4	Contre-écrou G1/4
Druckfeder Vane spring Flaschenträger für 4I Flasche Bottle support for 4I bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Durchführung G1/4-G1/4-10/8mm	Lead-through G1/4-G1/4-10/8mm	Passage G1/4-G1/4-10/8mm
Flaschenträger für 4I Flasche Bottle support for 4I bottle Spannplatte Clamping plate Gehäusedeckelinnenteil ME 1C/BVC Housing cover insert ME 1C/BVC Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Druckfeder	Vane spring	Ressort pour palette
Spannplatte Gehäusedeckelinnenteil ME 1C/BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Clamping plate Housing cover insert ME 1C/BVC Housing cover front BVC Oval head screw M4x40mm, Torx		laschenträger für 4l Flasche	Bottle support for 4I bottle	Support de bouteille pour bouteille 4I
Gehäusedeckelinnenteil ME 1C/BVC Gehäusedeckel Vorderseite BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Spannplatte	Clamping plate	Griffe
Gehäusedeckel Vorderseite BVC Housing cover front BVC Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		3ehäusedeckelinnenteil ME 1C/BVC	Housing cover insert ME 1C/BVC	Intérieur du couvercle de carter ME 1C/BVC
Flachkopfschraube M4x40mm, Torx Oval head screw M4x40mm, Torx		Sehäusedeckel Vorderseite BVC	Housing cover front BVC	Couvercle de carter frontal BVC
- II		lachkopfschraube M4x40mm, Torx	Oval head screw M4x40mm, Torx	Vis à tête cylindrique bombée M4x40mm, Torx
Spannscheibe Clamping disc		Spannscheibe	Clamping disc	Disque de serrage
20636073 Lüfterflügel Fan blade Ailette de v		üfterflügel	Fan blade	Ailette de ventilateur

Inlet and dutile to MAX.12mm, Edelstahl, Tox Schaluch (2006) Ersatz-Schlauch für VHC, Mindestbestellmenge 2 m Totarancesuranti 10x6 Ersatz-Schlauch für VHC, Mindestbestellmenge 2 m Totaratschaluch für VHC, Mindestbestellmenge 2 m Totaratschlauch für VHC, Mindestbestellmenge 2 m Totaratschlauch für VHC, Mindestbestellmenge 2 m Totaratschlauch MAX.12mm, Edelstahl, Tox Schlauchweile DD (3) mm Int Rohransatz 10/8mm Hose nozze DN 87 fromm with tuber 10/8mm Senkschraubte MAX.10mm, Edelstahl, Tox Schlauchschelb D (16) mm Int Rohransatz 10/8mm Hose nozze DN 87 fromm with tuber 10/8mm Senkschraubte MAX.10mm, stainless steel, Tox Schlauchschelb D (16) mm Int Rohransatz 10/8mm Hose clamp D (16) mm Int Rohransatz 10/8mm Senkschraubte MAX.10mm, stainless steel, Tox Schlauchschelbe D (16) mm Int Rohransatz 10/8mm Hose clamp D (16) mm Int Rohransatz Int	20636075	Fin /Ausschalter blau	Main emitch blue	Internintalir principal blatt
Ersatz-Schlauch für VHC, Mindestbestellinenge 2 m Spare hose for VHC, minimum order quantity 2 m Ein- und Auslassvenfil D18, PTEE inter and outlet valve D18, PTEE Flackhopfschraube M4x12mm, Edelstahl, Torx Oval head screw M4x12mm, stainless steel, Torx Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Hose nozzle DN 6/10mm with tube 10/8mm Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Hose nozzle DN 6/10mm with tube 10/8mm Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Hose nozzle DN 6/10mm with tube 10/8mm Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Schlauchwelle DN 6/10mm with tube 10/8mm Schlauchschelle D 10.5 Threaded elbow joint 1/8 NPT Schlauchwelle DN 6/10mm with kein Dlaphragm support disc 7 Zmm, small Nr. 20637568) Membranstützschelbe 7/2mm, klein Dlaphragm support disc 7 Zmm, small Ncyclaeckel Chemiemenbrandhumpe (klein) Head cover chemistry diaphragm pump (small) Membranstützschelbe 7/2mm, klein Dlaphragm screw G 1/4 Banking 1/4 PV With cap, unmachined (w/o filter, Filter Schlaucherschluss, Blindstopfen) Bantie 4/4 PP with cap, unmachined (w/o filter, Schlaucherschluss, Blindstopfen) Bantie 4/4 PP with cap, unmachined Banking 1/4 PV With cap, Unmachined D1/4 Banking 1/4 PV WC 4/8 If mm Schlauch PVC 4/8 If mm Schlauch gerade, PTE, 10/8 mm Hose, staight, PVC	20636077		Tolerance ring 10x6	Bague de tolérance 10x6
Ein- und Auslassventil D18, PTFE Flackhopfschraube MAx12mm, Ecelstahl, Torx Schlauchweile DN 6/6 from mit Rohransatz 10/8mm Schlauchweile DN 6/6 from mit Rohransatz 10/8mm Schlauchweile DN 6/6 from mit Rohransatz 10/8mm Schlauchschelle D 10,5 Minkelverschraube M4x10mm, Edestahl, Torx Schlauchschelle D 10,6 Minkelverschraube M4x10mm, Edestahl, Torx Schlauchare M4x1 für Schlauchver- schraubung Membrane PTFE (Mein) Membrane M4x1 (Mem Membrane PTFE (Mein) Membrane M4x1 (Mem Membrane PTFE (Mein) Membrane M4x1 (Mem M	20636156	Ersatz-Schlauch für VHC, Mindestbestellmenge 2	Spare hose for VHC, minimum order quantity 2 m	Tuyaux de rechange pour VHC,la quantité minimum de commande est de 2 mèt
Flachkopfschraube M4x12mm, Edelstahl, Torx Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Senkschraube M4x12mm, Edelstahl, Torx Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Senkschraube M4x10mm, Edelstahl, Torx Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Senkschraube M4x10mm, Edelstahl, Torx Schlauchschelle D 10,5 Winkelverschraubung 1/8 NPT Merschlusskappe PTFE DN 10/8mm Sen	20636178		Inlet and outlet valve D18, PTFE	Joint de clapet d'entrée et de sortie D18, PTFE
Schlauchwelle DN 6/10mm mit Rohransatz 10/8mm Hose nozzle DN 6/10mm with tube 10/8mm Serkschraube M4X10mm, Edelstahl, Tox Counteraunk screw M4X10mm, stainless steel, Tox Schlauchschelle D 10,5 Hose clamp D 10,5 Threaded elbow joint 1/8 NPT Nurselverschraubung 1/8 NPT Sealing cap PTFE DN 10/8mm Ein- und Ausiassventil D18, FFKM (Frsatz für Best and Ausiassventil D18, Frsatz Ausia Ausiassventil D18, FFKM (Frant Ausiassventil D24, FFKM (Frant Ausiassventil D24, FFKM (Frant Ausiassventil D24, FFKM (Frant Forentifurer M1414, 5mm (Frant Ausiassventil D24, FFKM (Frant Forentifurer M1414, 5mm (Frant Forenti	20636232		Oval head screw M4x12mm, stainless steel, Torx	Vis à tête cylindrique bombée M4x12mm, inox, Torx
Senkschraube M4x10mm, Edelstahl, Torx Schlauchschelle D 10,5 Schlauchschelle D 10,5 Senling Cap D 10,5 Minkeverschrauben Q1,6 Minkeverschrauben Q1,6 Minkeverschauben Q1,6 Minkeverschrauben Q1,6 Membranstützschelbe 7,2mm, klein D1-Scheibe A3,2 Zylinderstiff zmöx10 AAz EX LF 1SO 2338 Zylinderstiff scholm Kopfdeckel Chemiemembranpumpe (klein) Membranstorabe A3,2 Zylinderstiff scholm Kopfdeckel Chemiemembranpumpe (klein) Membranschraube G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Minkerschrauben G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Niol (söking 1 mg	20636635	Schlauchwelle DN 6/10mm mit Rohransatz 10/	Hose nozzle DN 6/10mm with tube 10/8mm	Embout cannelé DN 6/10mm
Schlauchschelle D 10,5 Winkelverschraubung 1/8 NPT Winkelverschraubung 1/8 NPT Fireaded elbow joint 1/8 NPT Sealing app FTFE DN 10/8mm Nembranstitzscheibe 7,2mm, klein Diaphragm support disc 7,2mm, small U-Scheibe A3,2 Zylinderstift A10mm Membranspannscheibe, klein Nerschlussschraube G 1/4 Banking screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Both screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking screw G 1/4 Banking screw G 1/4 Banking 1/6 Both right screw G 1/4 Banking screw G 1/4 Banking screw G 1/4 Banking s	20636764		Countersunk screw M4x10mm, stainless steel, Torx	Vis à tête fraisée M4x10mm, inox, Torx
Winkelverschraubung 1/8 NPT Threaded elbow joint 1/8 NPT Verschlusskrappe PTFE DN 10/8mm Sealing cap PTFE DN 10/8mm Filer und Ausläsasventil D18, FFKM (Ersatz für Best. Inlet and outlet valve D18, FFKM (replacement for Inc. 2063/7568) Diaphragm support disc 7.2mm, small In. 26d57688) Diaphragm support disc 7.2mm, small U - Scheibe A3,2 Zylinderstiff schlom Zylinderstiff Zylom Plain washer A3,2 Zylinderstiff Zylom Clamping disc, small Membranspannscheibe. Klein Head cover chemistry diaphragm pump (small) Membranspannscheibe. Klein Blanking sorew G 1/4 Blanking sorew G 1/4 Blanking sorew G 1/4 Habschale D40 POM Half-shell D40 POM Übenwurfmutter M42x1.5mm Union nut M38x1.5mm Diaphragm PTFE (sein) Half-shell D40 POM Diaphragm PTFE (sein) Half-shell D40 POM Diaphragm PTFE (sein) Half-shell D40 POM	20636789		Hose clamp D 10.5	Collier de serrage pour tuyau D 10,5
Nerschlusskappe PTEE DN 10/8mm Nerschlusskappe PTEE DN 10/8mm Nr. 20637568) Membranstützscheibe 7,2mm, Klein Nr. 20637568) Membranscheibe A3,2 Zylinderstift 6x10mm Köpfdeckel Chemitermehranpumpe (klein) Membranscheibe, Klein Nr. 10/8mm, ohne Klein Nr. 10/8mm Nr. 10/	20637064		Threaded elbow joint 1/8 NPT	Raccord à vis coudé 1/8 NPT
Ein- und Auslasswentil D18, FFKM (Ersatz für Best ett. 20637568) Membranstützschelbe 7,2mm, Klein U- Scheibe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A3.2 Zylinderstift 2m6x10 AA2 EX LF 1SO 2338 Membranschelbe A1.4 Rändelmutter M14x1 für Schlauchver- schraubung Klemmring 10mm für Rändelmutrer M14x1 (637657) Halbschale D40 POM Überwurfmutter M35x1.5mm Membrane PTTE (klein) Diaphragm PTTE (small) Half-shell D40 POM Diaphragm PTTE (small) Half-shell D40 POM Diaphragm PTTE (small) Half-shell D40 POM Diaphragm PTTE (small) Hose, silicone, 9/6 mm Schlauch, 9/6 mm Schlauchwelle DN 6/10mm, Gewinde G1/4 Distanzschelbe 0,1mm Schlauch, 15mm	20637068		Sealing cap PTFE DN 10/8mm	Bouchon de fermeture PTFE DN 10/8mm
Membranstützscheibe 7,2mm, klein U- Scheibe A3,2 Zylinderstift Zm6x10 A2 EX LF ISO 2338 Zylinderstift Zm6x10 AA2 EX LF ISO 2338 Zylinderstift Exform Kopfdeckel Chemiemembranpumpe (klein) Membranspannscheibe, klein Nerschlussschraube G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Membrane D1 PE (klein) Halbschale D40 POM Schlauch Sikmm, ohne Klemming Membrane PTFE (klein) Diaphragm PTFE (small) Halbschale D40 POM Onnection für Nose, blind plug) Schlauch Sikmon, 9/6 mm Schlauch Schlauchanschluss, Blindstopfen) Diaphragm PTFE (small) Hose silicone, 9/6 mm Schlauch Schlauchweile DN 6/10mm, Gewinde G1/4 Distanzscheibe 0,1mm Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Distanzscheibe 0,1mm Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Distanzscheibe 0,15mm Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Schlauch Distanzscheibe 0,15mm Schlauch Schlauch Schlauch	20637226	Ein- und Auslassventil D18, FFKM (Ersatz für Nr. 20637568)	Inlet and outlet valve D18, FFKM (replacement for cat. no. 20637568)	Joint de clapet d' entrée et de sortie D18, FFKM (remplace réf. 20637568)
U - Scheibe A3,2 Zylinderstiff Zm6x10 AA2 EX LF ISO 2338 Zylinderstiff Ex10mm Kopfdeckel Chemiemembranpumpe (klein) Membranspannscheibe, klein Nerschlussschraube G 14 Rändelmutter M14x1 für Schlauchver- schraubung No 10/8mm, ohne Klemmring No 10/8mm No 10/8mm, ohne Klemmring No 10/8mm	20637267		Diaphragm support disc 7.2mm, small	Disque de support de membrane 7.2mm
Availinderstift 2m6x10 AA2 EX LF ISO 2338 Eylinderstift 6x10mm Kopfdeckel Chemiemembranpumpe (klein) Head cover chemistry diaphragm pump (small) Membranspannscheibe, klein Blanking screw G 1/4 Membranspannscheibe, klein Blanking screw G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Wolocking ring 10mm for hose fitting DN 10/8mm, wolocking ring 10mm for knurled nut M14x1 (637657) Halbschale D40 POM Half-shell D40 POM Half-shell D40 POM Diaphragm PTFE (small) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, conhauch, silikon, 9/6 mm Schlauchschluss, Blindstopfen) Schlauch Silikon, 9/6 mm Schlauchscheibe 0,1mm Schlauch PVC, 4,8/1,6 mm Shim 0.1mm Stecktuß Schlauch PVC, 4,8/1,6 mm Stecktuß Schlauch, BVC Schlauch Sealing ring G14*, PVC Überwurfmutter M14x1,5mm Tolerance ring 12x12mm	20637295		Plain washer A3,2	Rondelle A3,2
Kopfdeckel Chemiemembranpumpe (klein) Head cover chemistry diaphragm pump (small) Membranspannscheibe, klein Clamping disc, small Verschlussschraube G 1/4 Blanking screw G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Knurled nut M14x1mm for hose fitting DN 10/8mm, volne Klemmring DN 10/8mm, ohne Klemmring Wool locking ring 10mm for knurled nut M14x1 (637657) Halbschale D40 POM Locking ring 10mm for knurled nut M14x1 (637657) Halbschale D40 POM Half-shell D40 POM Überwurfmutter M35x1,5mm Union nut M35x1,5mm Membrane PTEE (klein) Half-shell D40 POM Flier, Schlauchschluss, Blindstopfen) Diaphragm PTEE (small) Flier, Schlauchschluss, Blindstopfen) Hose, silicone, 9/6 mm Schlauch, 9/6 mm Protection filter hydrophobic 64/0,2 Distanzscheibe 0,1mm Schlauchweile DN 6/10mm, thread G1/4 Bistanzscheibe 0,1mm Schlauchweile DN 6/10mm, thread G1/4 Bistanzscheibe 0,1mm Schlauch, PVC, 4,8/1,6 mm Schlauch, PVC, 4,8/1,6 mm Hose nozzle DN 6/10mm, thread G1/4 Steckfuls Hose nozzle DN 6/10mm, thread G1/4 Steckfuls Plug-in rubber foot Schlauch, PVC, 4,8/1,6 mm	20637319	Zylinderstift 2m6x10 A A2	Zylinderstift 6x10mm	Cylindrical pin 6x10mm
Membranspannscheibe, klein Verschlussschraube G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Rinnelmutter M14x1 für Schlauchver- schraubung Rinnelmutter M14x1 für Schlauchver- schraubung No 100king ring Rinnelmutter M14x1 für Schlauchver- schraubung No 100king ring Rinnelmutter M14x1 für Schlauchver- schraubung Rinnelmutter M14x1 für Schlauchver- schraubung Rinnelmutter M35x1,5mm Union nut M35x1,5mm Disphrage PTEE (small) Filter, Schlauchanschluss, Blindstopfen) Schlauch, Silikon, 9/6 mm Schlauch, PVC, 4,8/1,6 mm Schlauch, PVC, 4,8/1,6 mm Starazscheibe 0,15mm Steckfuls Steckfuls Schlauch, gerade, PTFE, 10/8 mm Fine- und Auslassventil D24, FFKM Dichtring G1/4*, PVC Überwurfmutter M14x1,5mm Inlet and outlet valve D24, FFKM Dichtring G1/4*, PVC Überwurfmutter M14x1,5mm Ioleranzing 12x12mm	20637327		Head cover chemistry diaphragm pump (small)	Couvercle de tête pour pompe à membrane chimie (petite)
Nerschlussschraube G 1/4 Rändelmutter M14x1 für Schlauchver- schraubung Knurled nut M14x1mm for hose fitting DN 10/8mm, wol locking ring M16mm, ohne Klemmring Klemmring 10mm für Rändelmutter M14x1 (637657) Halbschale D40 POM Half-shell D40 POM Union nut M35x1.5mm Halbschale D40 POM Gebruurfmutter M35x1,5mm Union nut M35x1.5mm Halschale D40 POM Gebruurfmutter M35x1,5mm Union nut M35x1.5mm Union nut M35x1.5mm Hose, sillicone, 9/6 mm Schlauchanschluss, Blindstopfen) Schlauch, Sillikon, 9/6 mm Schlauch, Schlauch, 9/6 mm Schlauch, Sillikon, 9/6 mm Schlauch, PVC, 4,8/1,6 mm Schlauch, PVC, 4,8/1,6 mm Schlauch, gerade, PTFE, 10/8 mm Hose, PVC, 4,8/1,6 mm Schlauch, gerade, PTFE, 10/8 mm Inlet and outlet valve D24, FFKM Dichtring G1/4*, PVC Überwurfmutter M14x1,5mm Inlet and outlet valve D24, FFKM Dichtring G1/4*, PVC Überwurfmutter M14x1,5mm Inlet anzening 12x12mm	20637344		Clamping disc, small	Disque de tension de membrane
Rändelmutter M14x1 für Schlauchver- schraubung Molocking ring DN 10/8mm, wo locking ring DN 10/8mm, ohne Klemmring M4x1 (637657) Klemmring 10mm für Rändelmutter M14x1 (637657) Halbschale D40 POM Half-shell D40 POM Union nut M35x1.5mm Wenbrane PTFE (klein) Halbschale D40 POM Union nut M35x1.5mm Wenbrane PTFE (klein) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug) Schlauch Schlauchanschluss, Blindstopfen) Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch, Put Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug) Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch, Reven ozzer DN 6/10mm, thread G1/4 Distanzscheibe 0,15mm Schlauch, Garade, PTFE, 10/8 mm Schlauch, gerade, PTFE, 10/8 mm Schlauch, gerade, PTFE, 10/8 mm Flug-in rubber foot Schlauch, gerade, PTFE, 10/8 mm Schlauch, gerade, PTFE, 10/8 mm Flug-in rubber foot Schlauch, gerade, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Dichtring G1/4", PVC Überwurfmutter M14x1,5mm Toleranzring 12x12mm Toleranzring 12x12mm	20637464		Blanking screw G 1/4	Obturateur G 1/4
Klemmring 10mm für Rändelmutter M14x1 (637657) Halbschale D40 POM Halbschale D40 POM Überwurfmutter M35x1,5mm Union nut M35x1.5mm Membrane PTFE (klein) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug) Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch, Silikon, 9/6 mm Schlauch Silikon, 9/6 mm Schlauchwelle DN 6/10mm, Gewinde G1/4 Distanzscheibe 0,1mm Schlauchwelle DN 6/10mm, Gewinde G1/4 Distanzscheibe 0,15mm Schlauchwelle DN 6/10mm, Gewinde G1/4 Distanzscheibe 0,15mm Schlauch, PVC, 4,8/1,6 mm Schlauch, gerade, PTFE, 10/8 mm Flose, straight, PTFE, 10/8 mm Flore and Auslassventil D24, FFKM Dichtring G1/4", PVC Sealing ring G1/4", PVC Überwurfmutter M14x1,5mm Toleranzering 12x12mm Toleranzering 12x12mm	20637657		Knurled nut M14x1mm for hose fitting DN 10/8mm, w/o locking ring	Ecrou moleté M 14x1, pour raccord pour tuyau 10/8mm, sans bague de serrage
Halbschale D40 POM Half-shell D40 POM Überwurfmutter M35x1,5mm Union nut M35x1.5mm Membrane PTFE (klein) Diaphragm PTFE (small) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, Schlauch) Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug) Filter, Schlauch, Silikon, 9/6 mm Protection filter hydrophobic 64/0,2 Schlauch, Silikon, 9/6 mm Protection filter hydrophobic 64/0,2 Schlauch, Silikon, 9/6 mm Schlauch (and be oil	20637658		Locking ring 10mm for knurled nut M14x1 (637657)	Bague de serrage D10 pour écrou moleté M 14x1 (637657)
Überwurfmutter M35x1,5mm Union nut M35x1.5mm Membrane PTEE (klein) Diaphragm PTFE (small) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Bottle 4L PP with cap, unmachined (w/o filter, connection, 50/6 mm Schlauch, Silikon, 9/6 mm Hose, silicone, 9/6 mm Schlauch, Silikon, 9/6 mm Protection filter hydrophobic 64/0,2 Schlauchwelle DN 6/10mm, Gewinde G1/4 Protection filter hydrophobic 64/0,2 Distanzscheibe 0,1mm Shim 0.1mm Schlauch, PNC, 4,8/1,6 mm Shim 0.2mm Distanzscheibe 0,15mm Shim 0.15mm Schlauch, PVC, 4,8/1,6 mm Hose, PVC, 4,8/1,6 mm Schlauch, gerade, PTFE, 10/8 mm Plug-in rubber foot Schlauch, gerade, PTFE, 10/8 mm Hose, straight, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Inlet and outlet valve D24, FFKM Dichtring G1/4*, PVC Sealing ring G1/4*, PVC Überwurfmutter M14x1,5mm Union nut M14x1.5mm Toleranzering 12x12mm Tolerance ring 12x12mm	20637748		Half-shell D40 POM	Gouttière D40 POM
Membrane PTFE (klein) Diaphragm PTFE (small) Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Filter, Schlauchanschluss, Blindstopfen) Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug) Schlauch, Silikon, 9/6 mm Hose, silicone, 9/6 mm Schlauch, Silikon, 9/6 mm Protection filter hydrophobic 64/0,2 Distanzscheibe 0,1mm Protection filter hydrophobic 64/0,2 Distanzscheibe 0,1mm Shim 0.1mm Distanzscheibe 0,2mm Shim 0.2mm Distanzscheibe 0,15mm Shim 0.15mm Schlauch, PVC, 4,8/1,6 mm Hose, PVC, 4.8/1.6 mm Schlauch, PVC, 4,8/1,6 mm Hose, PVC, 4.8/1.6 mm Schlauch, gerade, PTFE, 10/8 mm Hose, straight, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Inlet and outlet valve D24, FFKM Dichtring G1/4", PVC Sealing ring G1/4", PVC Überwurfmutter M14x1,5mm Union nut M14x1.5mm Tolerance ring 12x12mm Tolerance ring 12x12mm	20637749		Union nut M35x1.5mm	Ecrou d'accouplement M35x1,5mm
Flasche 4L PP mit Schraubkappe unbearbeitet (ohne Bottle 4L PP with cap, unmachined (w/o filter, Filter, Schlauchanschluss, Blindstopfen) Schlauch Schlauchanschluss, Blindstopfen) Schlauch, Silikon, 9/6 mm Schutzfilter 64/0,2 hydrophob Schlauchwelle DN 6/10mm, Gewinde G1/4 Distanzscheibe 0,15mm Schlauchwelle DN 6/10mm, thread G1/4 Shim 0.15mm Shim 0.15mm Shim 0.15mm Schlauch, PVC, 4,8/1,6 mm Schlauch, PVC, 4,8/1,6 mm Schlauch, PVC, 4,8/1,6 mm Schlauch, gerade, PTFE, 10/8 mm Schlauch, gerade, PTFE, 10/8 mm Schlauch, gerade, PTFE, 10/8 mm Inlet and outlet valve D24, FFKM Dichtring G1/4", PVC Überwurfmutter M14x1,5mm Tolerance ring 12x12mm Tolerance ring 12x12mm	20637769	- 1	Diaphragm PTFE (small)	Membrane PTFE (petite)
Schlauch, Silikon, 9/6 mmHose, silicone, 9/6 mmSchutzfilter 64/0,2 hydrophobProtection filter hydrophobic 64/0,2Distanzscheibe 0,1mmShim 0.1mmSchlauchwelle DN 6/10mm, Gewinde G1/4Hose nozzle DN 6/10mm, thread G1/4Distanzscheibe 0,2mmShim 0.2mmDistanzscheibe 0,15mmShim 0.15mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSchlauch, gerade, PTFE, 10/8 mmHose, straight, PTFE, 10/8 mmEin- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638246	Flasche 4L PP mit Schraubkappe unbearbeitet Filter, Schlauchanschluss, Blindstopfen)	Bottle 4L PP with cap, unmachined (w/o filter, connection for hose, blind plug)	Flacon collecteur 4L en PP avec bouchon brute (sans filtre, raccord de tuyau, obturateur)
Schutzfilter 64/0,2 hydrophobProtection filter hydrophobic 64/0,2Distanzscheibe 0,1mmShim 0.1mmSchlauchwelle DN 6/10mm, Gewinde G1/4Hose nozzle DN 6/10mm, thread G1/4Distanzscheibe 0,2mmShim 0.2mmDistanzscheibe 0,15mmShim 0.15mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSteckfußPlug-in rubber footSchlauch, gerade, PTFE, 10/8 mmHose, straight, PTFE, 10/8 mmEin- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638263		Hose, silicone, 9/6 mm	Tuyau, silicone, 9/6 mm
Distanzscheibe 0,1mmShim 0.1mmSchlauchwelle DN 6/10mm, Gewinde G1/4Hose nozzle DN 6/10mm, thread G1/4Distanzscheibe 0,2mmShim 0.2mmDistanzscheibe 0,15mmShim 0.15mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSteckfußPlug-in rubber footSchlauch, gerade, PTFE, 10/8 mmHose, straight, PTFE, 10/8 mmEin- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638264		Protection filter hydrophobic 64/0,2	Filtre de protection hydrophobe 64/0,2
Schlauchwelle DN 6/10mm, Gewinde G1/4Hose nozzle DN 6/10mm, thread G1/4Distanzscheibe 0,2mmShim 0.2mmDistanzscheibe 0,15mmShim 0.15mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSteckfußPlug-in rubber footSchlauch, gerade, PTFE, 10/8 mmHose, straight, PTFE, 10/8 mmEin- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1,5mmToleranzring 12x12mmTolerance ring 12x12mm	20638456		Shim 0.1mm	Rondelle 0,1mm
Distanzscheibe 0,2mm Shim 0.2mm Distanzscheibe 0,15mm Shim 0.15mm Schlauch, PVC, 4,8/1,6 mm Hose, PVC, 4.8/1.6 mm Steckfuß Plug-in rubber foot Schlauch, gerade, PTFE, 10/8 mm Hose, straight, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Inlet and outlet valve D24, FFKM Dichtring G1/4", PVC Sealing ring G1/4", PVC Überwurfmutter M14x1,5mm Union nut M14x1.5mm Toleranzring 12x12mm Tolerance ring 12x12mm	20638509	Schlauchwelle DN 6/10mm, Gewinde	Hose nozzle DN 6/10mm, thread G1/4	Embout cannelé DN 6/10mm, G1/4
Distanzscheibe 0,15mmShim 0.15mmSchlauch, PVC, 4,8/1,6 mmHose, PVC, 4.8/1.6 mmSteckfußPlug-in rubber footSchlauch, gerade, PTFE, 10/8 mmHose, straight, PTFE, 10/8 mmEin- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638545		Shim 0.2mm	Rondelle 0,2mm
Schlauch, PVC, 4,8/1,6 mm Steckfuß Schlauch, gerade, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Dichtring G1/4", PVC Überwurfmutter M14x1,5mm Toleranzring 12x12mm Schlauch, 4,8/1,6 mm Hose, PVC, 4.8/1.6 mm Inlet and outlet valve D24, FFKM Sealing ring G1/4", PVC Überwurfmutter M14x1,5 mm Tolerance ring 12x12 mm Tolerance ring 12x12 mm	20638547		Shim 0.15mm	Rondelle 0,15mm
Steckfuß Schlauch, gerade, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Dichtring G1/4", PVC Überwurfmutter M14x1,5mm Toleranzring 12x12mm Steckfuß Hose, straight, PTFE, 10/8 mm Inlet and outlet valve D24, FFKM Sealing ring G1/4", PVC Union nut M14x1.5mm Tolerance ring 12x12mm	20638555		Hose, PVC, 4.8/1.6 mm	Tuyau, PVC, 4,8/1,6 mm
Schlauch, gerade, PTFE, 10/8 mm Ein- und Auslassventil D24, FFKM Dichtring G1/4", PVC Überwurfmutter M14x1,5mm Toleranzring 12x12mm Schlauch, PTFE, 10/8 mm Inlet and outlet valve D24, FFKM Sealing ring G1/4", PVC Union nut M14x1.5mm Tolerance ring 12x12mm	20638643		Plug-in rubber foot	Pied caoutchouc insérable
Ein- und Auslassventil D24, FFKMInlet and outlet valve D24, FFKMDichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638644		Hose, straight, PTFE, 10/8 mm	Tuyau plan, PTFE, 10/8 mm
Dichtring G1/4", PVCSealing ring G1/4", PVCÜberwurfmutter M14x1,5mmUnion nut M14x1.5mmToleranzring 12x12mmTolerance ring 12x12mm	20638836		Inlet and outlet valve D24, FFKM	Joint de clapet d'entrée et de sortie D24, FFKM
Überwurfmutter M14x1,5mm Union nut M14x1.5mm Toleranzring 12x12mm Tolerance ring 12x12mm	20639729	- 1	Sealing ring G1/4", PVC	Joint G1/4", PVC
Toleranzring 12x12mm Tolerance ring 12x12mm	20639796		Union nut M14x1.5mm	Ecrou raccord M14x1,5mm
	20639848		Tolerance ring 12x12mm	Bague de tolérance 12x12mm

20639853	20639853 Winkelverschraubung NPT 1/8, kurz, mit PTFE- Schlauchanschluss DN 10/8mm	Elbow fitting NPT 1/8, short, with connector for PTFE Raccord à vis coudé NPT 1/8, pour tuyaux PTFE DN hose DN 10/8mm	Raccord à vis coudé NPT 1/8, pour tuyaux PTFE DN 10/8mm
20639900	20639900 Übergangsstück	Adapter	Adaptateur
20639927	20639927 Gummipuffer	Rubber foot	Pied caoutchouc
20696879	20696879 Dichtungssatz für BVC professional, BVC control	Set of diaphragms and valves for BVC professional, BVC control	Set de membranes et clapets pour BVC professional, BVC control
22618904	22618904 Umbausatz Gehäuse BVC professional inkl. Schalter, Elektronik und Frontglas.	Schalter, Conversion kit housing BVC professional with main switch, electronics and display.	Le kit do modification interrupteur BVC Professional
22618905	22618905 Umbausatz Gehäuse BVC control inkl. Schalter, Elektronik und Frontglas.	Conversion kit housing BVC control with main switch, Le kit do modification interrupteur BVC control electronics and display.	Le kit do modification interrupteur BVC control
23110259	Linsensenkschraube M5x12mm, Edelstahl	Round head countersunk screw M5x12mm, stainless Vis à tête fraisée bombée M5x12mm, inox steel	Vis à tête fraisée bombée M5x12mm, inox
23110641	Unterlegscheibe 6,4	Washer 6.4	Rondelle 6,4
23111274	23111274 Fächerscheibe A 3,2 verzinkt	Serrated lock washer A 3.2 galvanised	Rondelle éventail A 3,2 zinguée
23120011	23120011 Isolierfolie ME 1/C // BVC	Insulating film ME 1/C // BVC	Feuille d'isolation ME 1/C // BVC
23120549	23120549 O-Ring, 11mm x 2,5mm, FPM	O-ring, 11mm x 2.5mm, FPM	Joint torique, 11mm x 2,5mm, FPM
	Kondensator auf Anfrage	Capacitor on request	Condensateur sur demande

10 Service

Service range

Take advantage of the comprehensive range of services available from **VACUUBRAND GMBH + CO KG**.

Services in detail

- Product consultation and practical solutions
- Fast delivery of spare parts and accessories
- Professional maintenance
- Immediate repairs processing
- On-site service (on request)
- With Health and Safety Clearance form: return, disposal.
- ⇒ Visit our website for further information: <u>www.vacuubrand.com</u>.

Service handling

⇒ Follow the description on: VACUUBRAND > Support > Service

Meet the terms of service



Reduce downtime, speed up processing. Please have the required data and documents at hand when contacting our Service Department.

- ▶ Your order can be quickly and easily processed.
- ▶ Hazards can be prevented.
- A brief description and/or photos will help locate the source of the error.













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