

Instruction, Use and Maintenance Manual



MIXPROOF VALVE
B925 / B925B
B925V / B925A

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MANUAL REVISION	DATE

INDEX

1	Safety, Warning and Mandatory Signs	5
2	General safety warnings	8
3	Technical data	9
4	Checking / Unpacking / Lifting	10
5	Installation	11
6	Operation	14
7	Troubleshooting	15
8	Cleaning	16
9	General maintenance	17
10	Scheduled maintenance	19
11	Tools useful for Disassembly/Reassembly	20
12	Mixproof valve B925 - B925B - B925V - B925A	21
13	Disassembly of the B925 - B925B - B925V - B925A	24
14	Assembly of the B925 - B925B - B925V - B925A	39
15	Mixproof valve B925 - B925B Diverter	54
16	Disassembly of the B925 - B925B Diverter	56
17	Assembly of the B925 - B925B Diverter	69
18	Annexes	85
19	2D diagram B925	86
20	2D diagram B925B	87
21	2D diagram B925 Diverter	88
22	2D diagram B925B Diverter	89
23	2D diagram B925V	90
24	2D diagram B925A	91
25	Warranty	92
26	Recommendations	93

INTRODUCTION

This "Instruction, Use and Maintenance Manual" has been prepared to provide guidance and recommendations to assist qualified skilled technicians in the understanding, running and maintenance of the Products supplied.

It forms an integral part of the Products supplied and must be read prior to any installation, operation and/or maintenance of all types of valves provided.

This manual must be saved for future reference and be kept readily available at the unit.

With regards to the use of valves compliant with EU Directive 2014/34/UE (ATEX), consultation of a specific manual is mandatory.

The essential characteristics of all types of valves described herein being consistent, the Manufacturer reserves the right to alter and or complement and or update at any time and with no obligation to notify so in writing, the data and or information relevant to the use of the valves described in this "Instruction, Use and Maintenance Manual".

A constantly updated version of this "Instruction, Use and Maintenance Manual" is available at the Manufacturer's website www.bardianivalvole.it.






Under no circumstance shall the Manufacturer be held liable for consequences resulting from failure and or improper use of the instructions contained in this Manual and relating to the installation, operating, maintenance and storage of the products.






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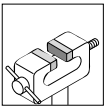
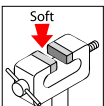
(Translation of the Original Instructions in the Italian Language)

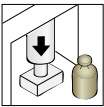



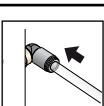
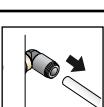
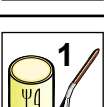
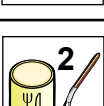

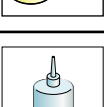

1 Safety, Warning and Mandatory Signs

WARNING SIGNS		
Pictogram	Description	Notes
	WARNING General	This tells the person in question that the operation described involves (when not performed in accordance with the relative safety regulations) the risk of personal injury.
	WARNING Hand crushing	Exercise caution in executing the procedure Hand crushing hazard
	WARNING Heavy loads	Exercise caution in executing the procedure Heavy suspended loads.
	WARNING Severe burns	Heat emission hazard Very hot surface, risk of severe burns
	WARNING Risk of explosions	Take Care, risk of explosions

MANDATORY SIGNS (FOR THE OPERATOR IN CHARGE OF ASSEMBLY/DISASSEMBLY)		
Pictogram	Description	Notes
	OBLIGATION General	Special instructions must be followed to avoid injury to persons.
	PROTECTIVE GLOVES	Safety gloves must be available for handling objects which could cause hand injuries.
	HARD HAT	A hard hat must be worn during machine lifting operations to protect against hazards generated by suspended loads.
	FOOTWEAR	Use safety footwear to protect against the risks of falling objects during operations to transport the machine.
	SUITABLE CLOTHING	Suitable clothing such as overalls. It is strictly prohibited to wear clothes with large flapping sleeves and/or other loose items which could easily get caught up in machine parts.

MANDATORY SIGNS (FOR THE OPERATOR IN CHARGE OF MECHANICAL MAINTENANCE)		
Pictogram	Description	Notes
	OBLIGATION General	Special instructions must be followed to avoid injury to persons.
	PROTECTIVE GLOVES	Protective gloves must be available for handling objects which could cause hand injuries or when there is the possibility of coming into contact with harmful substances..
	HARD HAT	Hard hats must be available when lifting heavy parts.
	FOOTWEAR	Use safety footwear to protect against injuries caused by falling objects during maintenance operations (particularly when dismantling parts).
	SUITABLE CLOTHING	Suitable clothing such as overalls. It is strictly prohibited to wear clothes with large flapping sleeves and/or other loose items which could easily get caught up in machine parts.
	SAFETY GLASSES	Protective glasses must be available when there is the possibility of contact which harmful substances which could cause eye injuries.

OPERATING SIGNS		
Pictogram	Description	Notes
	SKILLED PERSONNEL	Dismantling/Assembling and maintenance operations must be carried out by expert technicians only.
	NOTE	Follow the indicated note with care
	ENVIRONMENTAL NOTE	Follow the regulations in force in the country of used governing waste disposal.
	CLAMP	Use of a clamp
	CLAMP WITH SOFT JAWS	Use of a clamp with jaws made from soft material

OPERATING SIGNS		
Pictogram	Description	Notes
	PRESS	Use of a press
	PRESS (release)	Use of a press Gradual release of the pressure force
	ELECTRICAL CONNECTION	Electrical connection to the control unit (consult the relative instruction manual).
	ELECTRICAL DISCONNECTION	Electrical disconnection from the control unit (consult the relative instruction manual).
	PNEUMATIC CONNECTION	Connection of the air to the valve.
	PNEUMATIC DISCONNECTION	Disconnection of the air from the valve
	APPLICATION OF FOODSAFE GREASE	Use FOODLUBE HI-TEMP 2 15254 grease only
	APPLICATION OF FOODSAFE GREASE	Use FOODLUBE Multi-paste 15756 grease only
	APPLICATION OF MULTIPURPOSE GREASE	Use AGIP GREASE MU EP 2 SE 463754 only
	THREADLOCK APPLICATION	Use SPEED BOND M500 threadlock only
	OPTIONAL	

2 General safety warnings

Intended use

Bardiani valves have been designed exclusively for moving fluids.

Prohibited use

The valve must not be used:

- for any operations different to those described under the heading "Intended Use",
- for handling fluids different to the type specified by the manufacturer and indicated in the valve's technical data;
- for moving fluids at different pressures to those envisaged by the manufacturer and indicated in the valve's technical data.

Limitations on valve use

It is forbidden to:

- use the valve in a construction configuration different to the one envisaged by the manufacturer.
- use the valve where there is a risk of explosion and/or fire, unless envisaged by the manufacturer (if the valves are certified in accordance with Directive 2014/34/EU, please refer to the ATEX Manual)-;
- integrate other systems and/or equipment which were not considered by the manufacturer during the executive design phase,
- use the valve for purposes other than those specifically envisaged by the manufacturer.



WARNING

The machine may not be used inside premises where there is a potentially explosive atmosphere or risk of fire unless otherwise stated by the manufacturer (in the case of valves certified in accordance with Directive 2014/34/EU please refer to the ATEX Manual).



BARDIANI VALVOLE S.p.A. declines all liability for installation, use or maintenance which fails to comply with the indications provided in this manual!

3 Technical data

VALVE DATA	
Maximum pressure	PN10
Maximum seal pressure	10 bar (145 psi)
Minimum pressure	Vacuum
Storage temperature	from -10°C to 25°C
Material in contact with the product	AISI 316L (1.4404). Check the resistance to corrosion in relation to products and detergents
Gasket material in contact with the product	EPDM, FKM, HNBR and other gaskets on request. Check compatibility with products and detergents
Surface finish in contact with the product	Ra 0.8 µm. Other finishes available on request
Auxiliary washing circuit (B925B) connections	¼" BSP Male M14x1.5 Male for Ø8 pipe ½" Clamp

VAPOUR BARRIER DATA	
Connectors	1/8" BSP
Steam maximum temperature	130°C (266°F)
Gaskets material	FKM

PNEUMATIC ACTUATOR STRUCTURE DATA	
Connectors	1/8" BSP
Pipe dimensions	6 mm external diameter, 4 mm internal diameter
Air pressure	from 6 bar (87 psi) to 8 bar (116 psi)
Air quality	Class 2, 4, 3 ISO8573-1
External material	AISI 304L (1.4307)
Seals	NBR
Noise levels	76 dB
Electrical supply	See Giotto Top

GASKET MATERIALS COMPATIBILITY			
Product	EPDM	FKM	HNBR
Temperature (applications with air)	-10 ÷ 140°C	-10 ÷ 200°C	-10 ÷ 130°C
Caustic soda 2%	60°C	30°C	To be checked
Nitric Acid 2%	60°C	80°C	To be checked
Saturated steam 125°C	Suitable	To be checked	Suitable
Greases	Unsuitable	Suitable	Suitable
Alcohols	Suitable	Unsuitable	Suitable

The valve is conformed to PED 2014/68/EU directive, with special reference to Annex III, Module A, concerning internal manufacturing checks as indicated in the Conformity Assessment Procedures.

The DN15--25 valves are included in compliance with Article 4, paragraph 3:

Valves designed for use with gas, liquid gas, gases dissolved under pressure, steam and those liquids with a vapour pressure at maximum admissible temperature exceeding 0.5 bar at normal atmospheric pressure (1.013 mbar) within the following limits:

- For group 1 fluids when DN is from 25 to 100.
- For group 2 fluids when DN is 125 and over.

In the event of any doubt, please contact Bardiani Valvole S.p.A.

4 Checking / Unpacking / Lifting

1. CHECK:

- Check the valve show no signs of damage caused during transport and that it corresponds with the order;
- Check the inside of the valve.



2. UNPACKING:

The valve packaging is made up of cardboard, wood and plastic. The valve is mainly made up of metal materials. The gaskets are usually made from elastomers. Disposal must be in compliance with local legislation.



3. VALVE LIFTING:

Take care as to the type of valve you are handling. Based on the size there are two different lifting procedures.

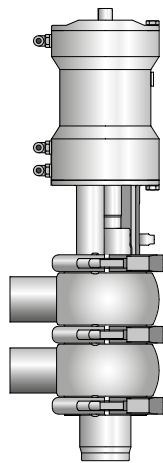


CAUTION!

Before lifting the valve, make sure there are no disassembled or separate valve parts which could fall off causing injury to persons and damage to the valve.

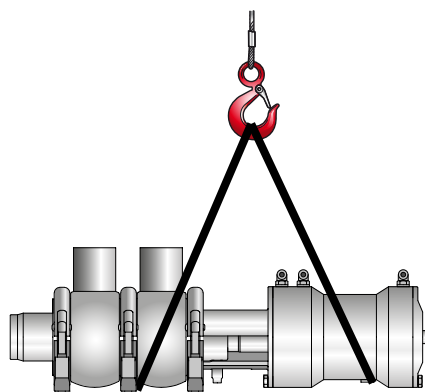
Size DN	Weight Kg
15--50	A
65--80	B
100--125	C

A



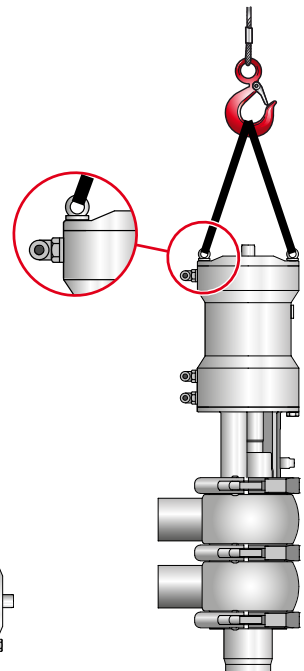
Weight up to 25 kg

B

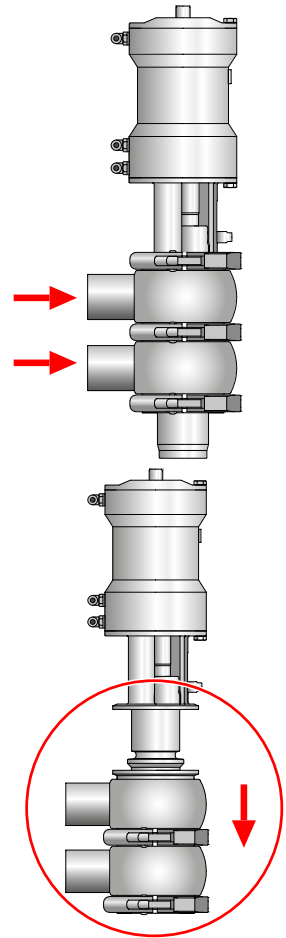


Weight between 25 kg and 50 kg

C



Weight over 50 Kg



CAUTION!

The figures above are used purely to represent the methods and procedures for hoisting the valves. Bardiani Valvole S.p.A. declines all liability for any damage to things and/or injuries to persons caused by improper and/or incorrect hoisting of the valve.

5 Installation



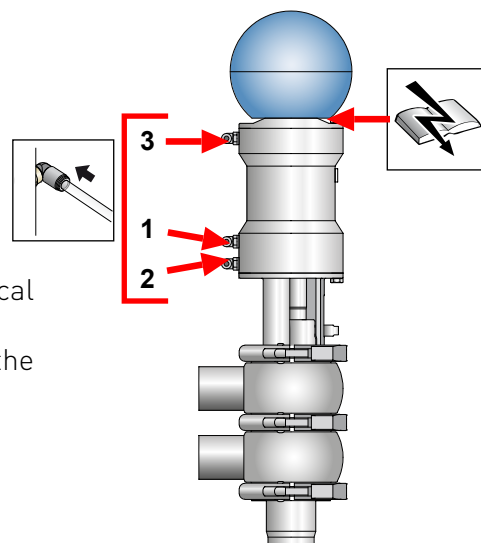
1. ELECTRICAL AND PNEUMATIC ENERGY SUPPLY

- Use expert personnel for installation/uninstallation operations;
- Check that the air pressure and quality are correct (see "Technical Data");
- Check the power supply to the control unit is correct (consult the relative instruction manual).

1 = Opening

2 = Top lift

3 = Bottom lift



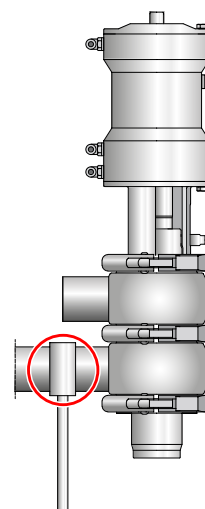
2. REDUCING THE STRESS TO WHICH THE VALVE IS SUBJECTED:

- Vibrations;
- Thermal expansion of the piping;
- Excessive welding;
- Overload.



CAUTION!

The seal seats may become deformed or cause valve malfunctioning.



3. CORRECT DIRECTION OF FLOW:

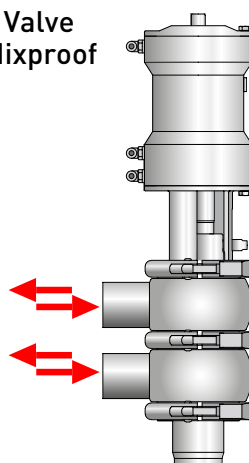
Flow in the opposite direction to valve closure minimizes water hammer.



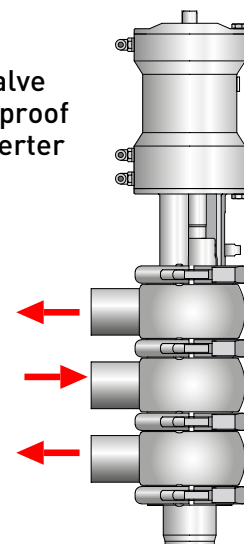
CAUTION!

Bardiani Valvole S.p.A. declines all liability for any damage to things and/or injuries to persons caused by any failure to correctly follow the installation procedures.

Valve
Mixproof



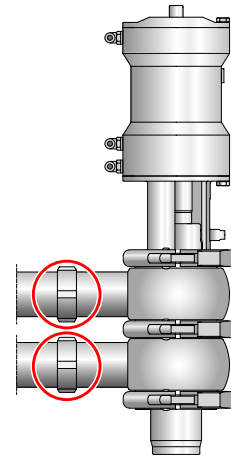
Valve
Mixproof
Diverter





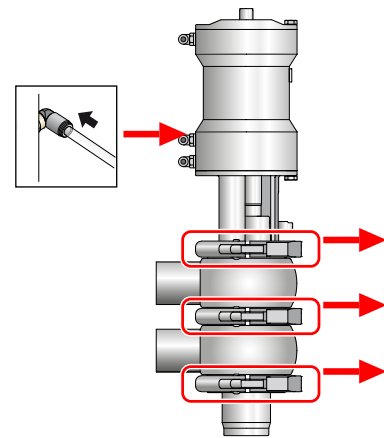
4. VALVE CONNECTIONS/CONNECTORS:

If the valve is fitted with connectors, you may proceed with installation. Correctly insert the gaskets and tighten the connectors. For hygienic applications, easy cleanable process connections according to the EHEDG Position paper are recommended (see www.ehedg.org/guidelines/).



5. WELDING THE VALVE BODY ONTO PIPING:

1. Insert air couplings in the central connector
2. Remove the body from the rest of the valve before proceeding with welding operations.



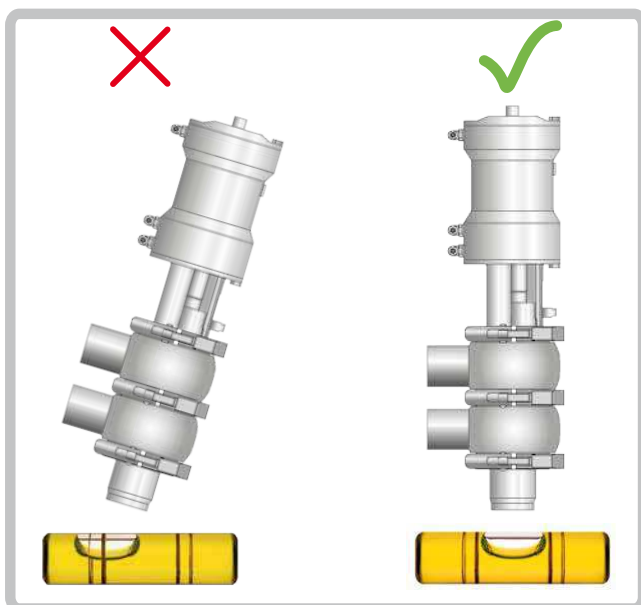
CAUTION!

Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present).



6. VALVE RIGHT INSTALLATION:

To guarantee its drainability, make sure the valve is in a vertical position





7. MINIMUM MAINTENANCE CLEARANCES:

Make sure there is enough room around the valve for it to be disassembled (with the control unit installed).

DN 15÷40	B925	B925 DIVERTER	
	A (mm)	B (mm)	C (mm)
15÷32	350	150	330
40	370	130	350
50	400	165	380
65	420	180	420
80	450	195	450
100	570	235	570
125	670	280	680
150	670	280	680



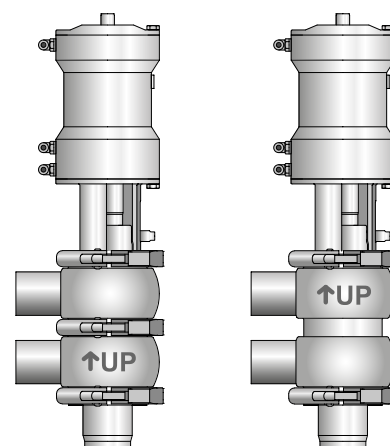
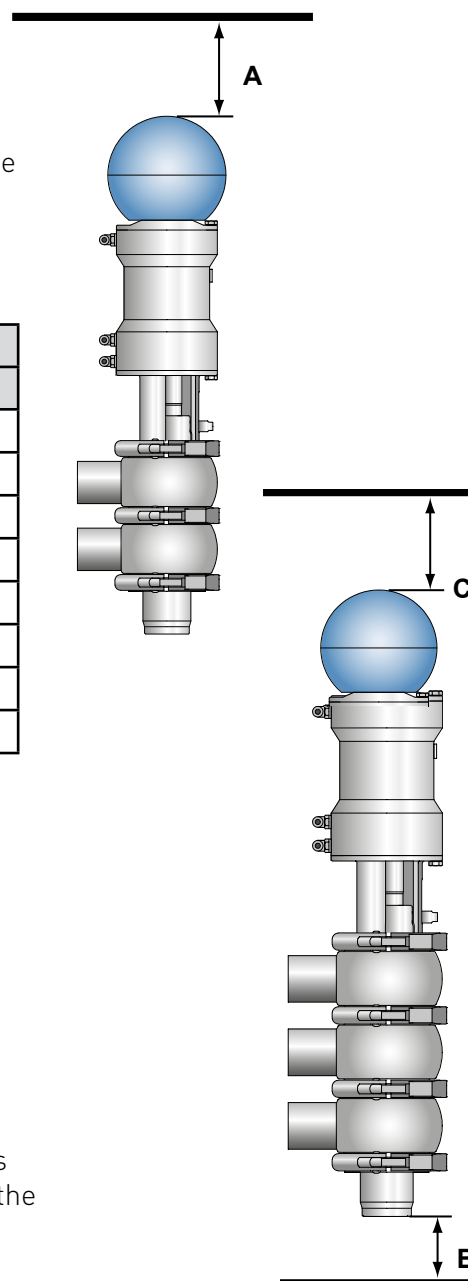
CAUTION!

Bardiani Valvole S.p.A. declines all liability for any damage to things and/or injuries to persons caused by any failure to correctly follow the installation procedures.



8. ORIENTATION OF THE DOUBLE BODY:

Pay attention to body orientation. On the double body and the bottom body (for valves with separate bodies) the UP arrow indicates the position of the valve actuator.



6 Operation



1. EXTERNAL CIP CONNECTION (B925B only)

A = CIP external inlet

A = CIP external outlet



CAUTION!

Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present).



2. VALVE INSPECTION BEFORE OPERATION:

- Supply air to the actuator;
- Power the valve (via the control unit);
- Open and close the valve several times;
- Check that the valve works correctly and accurately.

1 = Opening

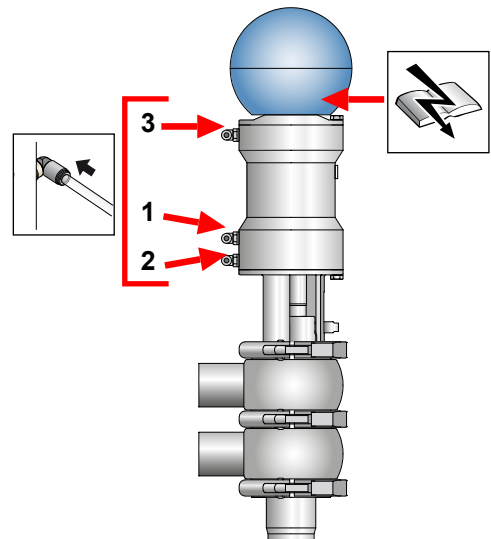
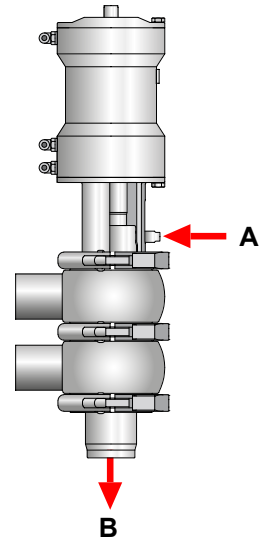
2 = Top lift

3 = Bottom lift



CAUTION!

Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present).



7 Troubleshooting



PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
External leak	Worn gasket	Replace the seal
Leaks inside the closed valve caused by normal wear		
External leak	Excessive pressure	Replace with a gasket of a different type of elastomer
	Excessive temperature	
Premature leaks inside the closed valve	Aggressive fluids	Modify the operating conditions
	Too many commands active	
Difficulty opening and closing	Incorrect type of elastomer used for the gaskets	Replace with a gasket of a different type of elastomer
	Incorrect positioning of the actuator	Install the actuator correctly
	Impurities in the actuator	Actuator inspection and maintenance
	Incorrect valve body positioning	Disassemble and correctly reposition the valve body

8 Cleaning



1. VALVE CLEANING WITH DETERGENTS:

The system in which the valve is installed must be cleaned by expert personnel in observance of the following:

- Abide by the indicated detergent concentration values;
- Observe the instructions provided by the detergent manufacturer.
- Always wear protective safety glasses and gloves.



IMPORTANT!

- Accurately dose detergents to avoid excessive concentration;
- Always rinse thoroughly with clean water after washing.
- Check compatibility of valve materials.



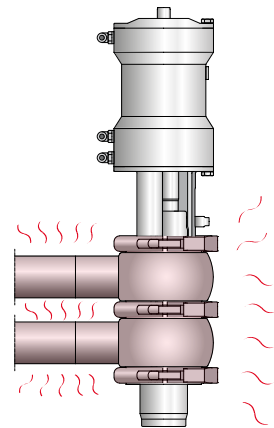
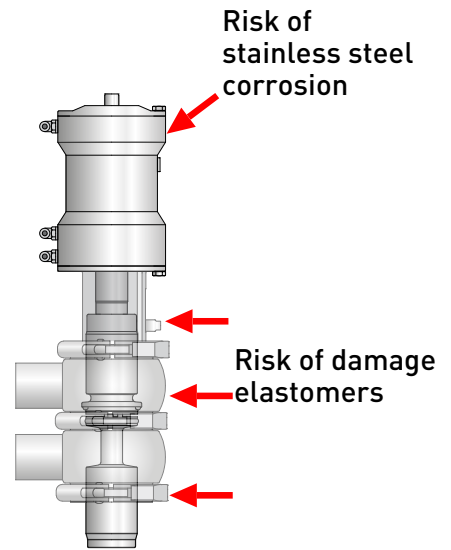
CAUTION!

Burns hazard. The valves and piping may be very hot. Wear protective gloves



WARNING

After installing a new or serviced valve, perform an internal washing cycle before using the piping for food liquids. If it there has been any welding work, passivation treatment must be carried out.



EXAMPLE OF INTERNAL WASHING CYCLE (CIP)

Phases	Temperature °C	Washing product
Initial rinse	Environment	Chlorine- and chloride-free water
Washing	70 °C	Caustic soda (NaOH) at 1%
Intermediate rinse	Environment	Chlorine- and chloride-free water
Washing	70 °C	Nitric acid (HNO3) at 0.5%
End rinse	Environment	Chlorine- and chloride-free water

Recommended washing product velocity = 2m/s

Recommended number of seat lifts per CIP step:

- Milk 1-2
- Yoghurt 3-5
- Beer 2-5
- Cold wort 5-10

Length of a seat lift: 1-2 seconds

9 General maintenance



1. MAINTENANCE PRECAUTIONS

Maintenance operations must be carried out by expert technicians only.



CAUTION!

Maintenance operations must be carried out with the line stopped and all utilities (electricity, compressed air) disconnected.



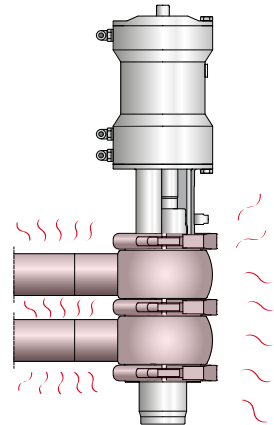
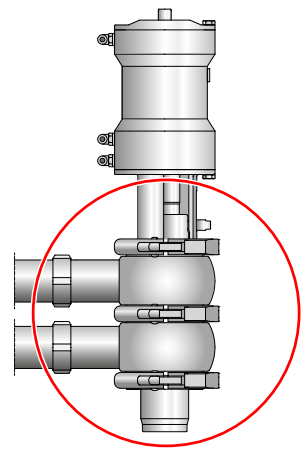
CAUTION!

Always discharge the fluid pressure in the valve and piping before disassembling the valve.



CAUTION!

Burns hazard. The valves and piping may be very hot. Wear protective gloves





2. CLEANING AWAY DEPOSITS:

- Thoroughly wash and clean all the valve parts before disassembly;
- Pay attention to any possible detergent or other aggressive fluid deposits (see "Cleaning");
- Always use protective safety glasses and gloves when required.



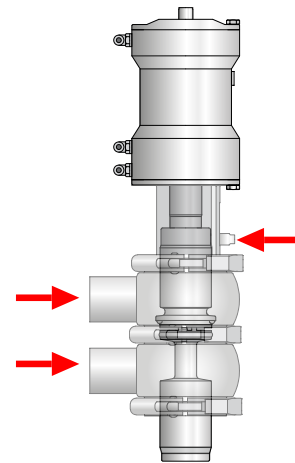
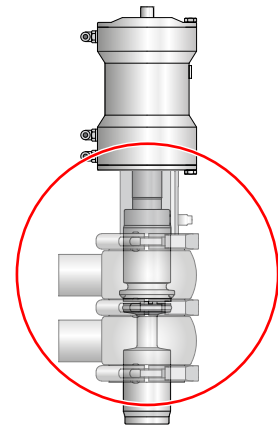
CAUTION!

Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present).
Never put hands in the valve openings.



3. REPLACEMENT OF WORN VALVE PARTS:

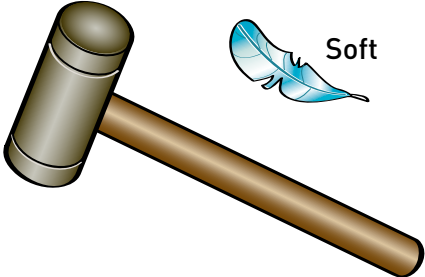




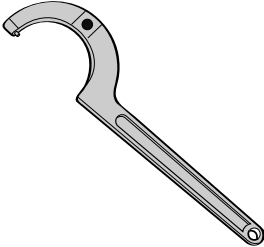
Always use original spare parts



10 Scheduled maintenance

SCHEDULED MAINTENANCE	VALVE GASKETS	ACTUATOR GASKETS
Preventive	Replace after 12 months	Replace after 24 months
In the event of leaks	Replace at the end of the day	Replace in the event of leaks
Periodical	Check correct operation and that there are no leaks	Check correct operation and that there are no leaks
	Record the actions carried out	Record the actions carried out

11 Tools useful for Disassembly/Reassembly

TOOLS	
	
	
	
	
	

12 Mixproof valve B925 - B925B - B925V - B925A

NO.	DESCRIPTION	NO.	DESCRIPTION
1	Bottom body/double body		
2	Upper shutter	70	Sealing ring
4	Sealing ring	74	Air connector
9	Cylinder	75	Air connector
11	Pin	77	Nut
12	Sealing ring	78	Sealing ring
13	Central piston	81	Sealing ring
14	Sealing ring	82	Sealing ring
16	Sealing ring	83	Sealing ring
17	Bush	85	Secondary spring
18	Buffer	90	Sealing ring
19	Sealing ring	91	Sealing ring
24	Air connector	92	Intermediate body
31	Spring	93	Intermediate valve member
33	Clamp	94	Sealing ring
34	Screw	96	Sealing ring
35	Assembly	101	Screw
40	Cap	106	Bush
42	Upper body	108	Sealing ring
44	Sealing ring	120	Bush
45	Steam barrier	121	Sealing ring
47	Sealing ring	126	Sealing ring
50	Gasket holder disc	154	Thickness
51	Lower shutter	168	Bush
52	Cap	193	Bush
53	Lower piston	199	Clamp
55	Sealing ring	213	Sealing ring
58	Drive sleeve	226	Sealing ring
60	Sealing ring	240	Sealing ring
61	Sealing ring	242	Sealing ring
62	Sealing ring	245	Guide pin
63	Sealing ring	270	Sealing ring
64	Bush	284	Screw
66	Upper piston	285	Pin protection
69	Sealing ring		

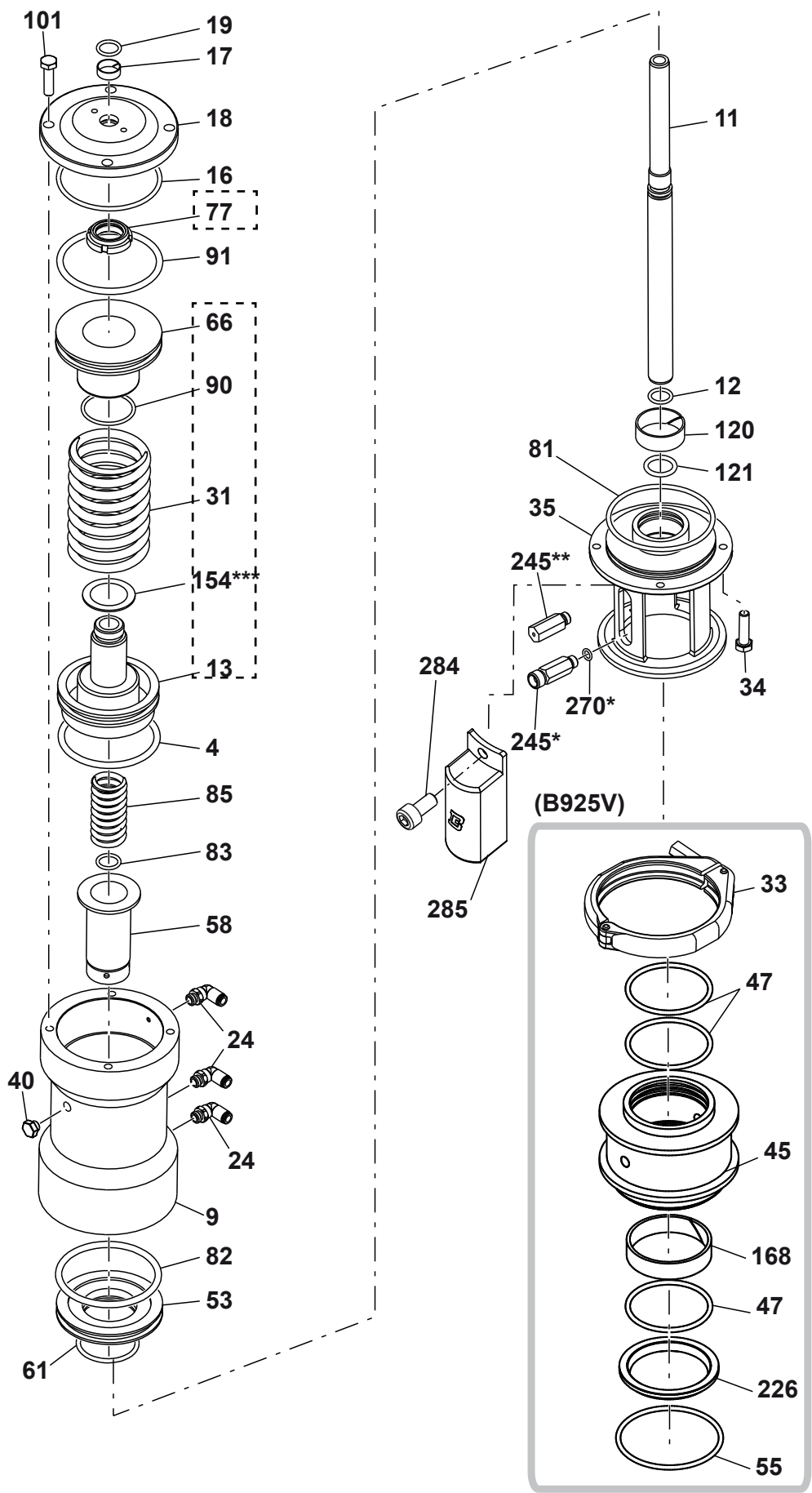
Legend:

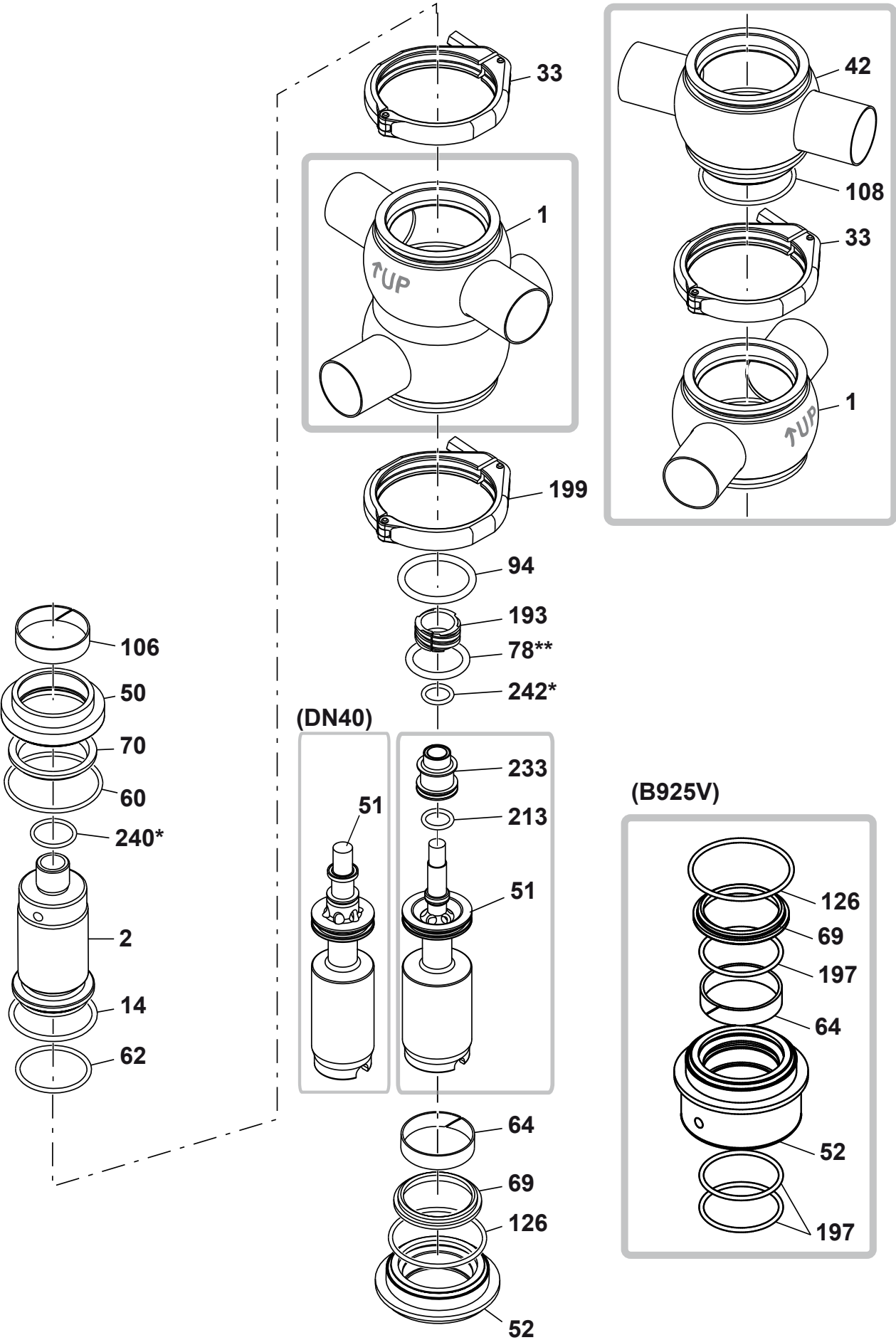
00* = component present only on the B925B valve.

00** = component present only on the B925 valve.

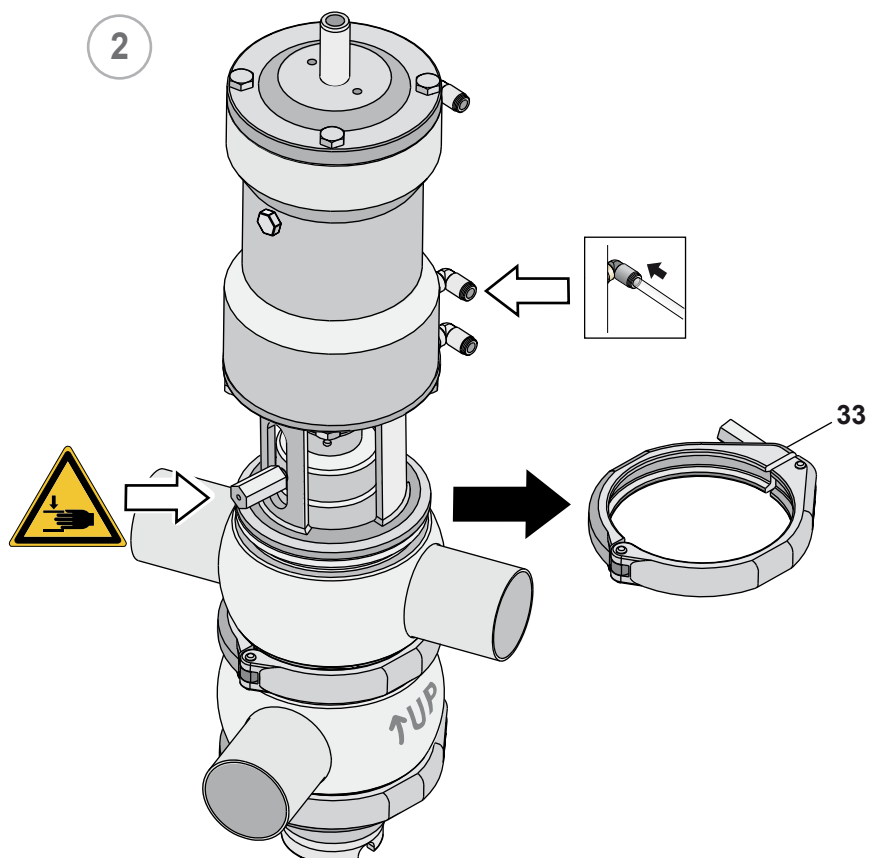
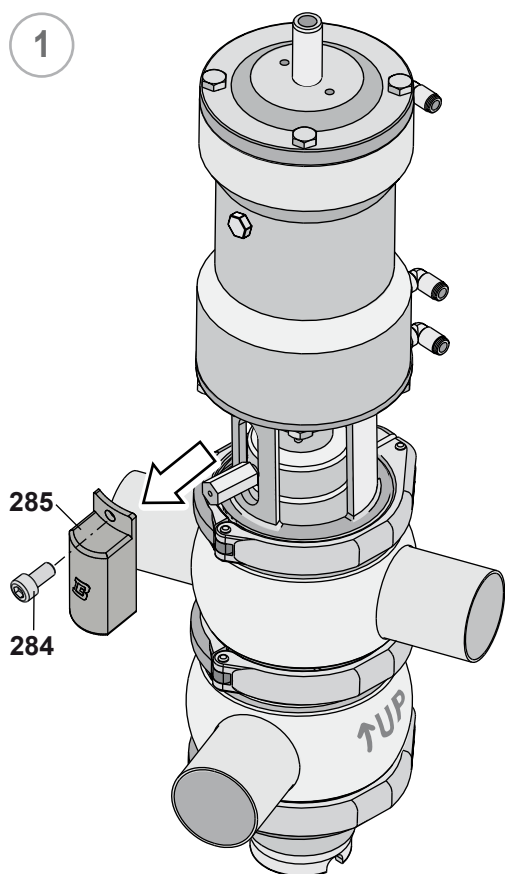
00*** = component present only on the DN25 - 40 and DN65 valve.

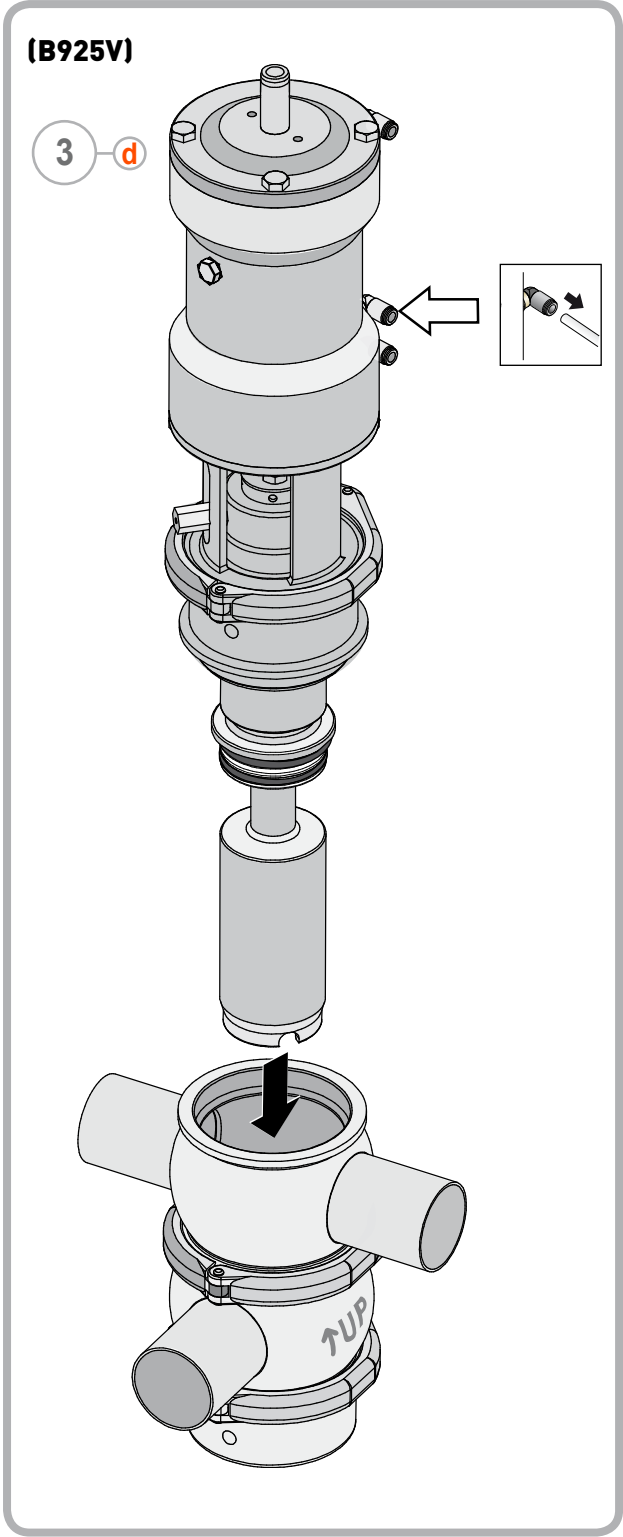
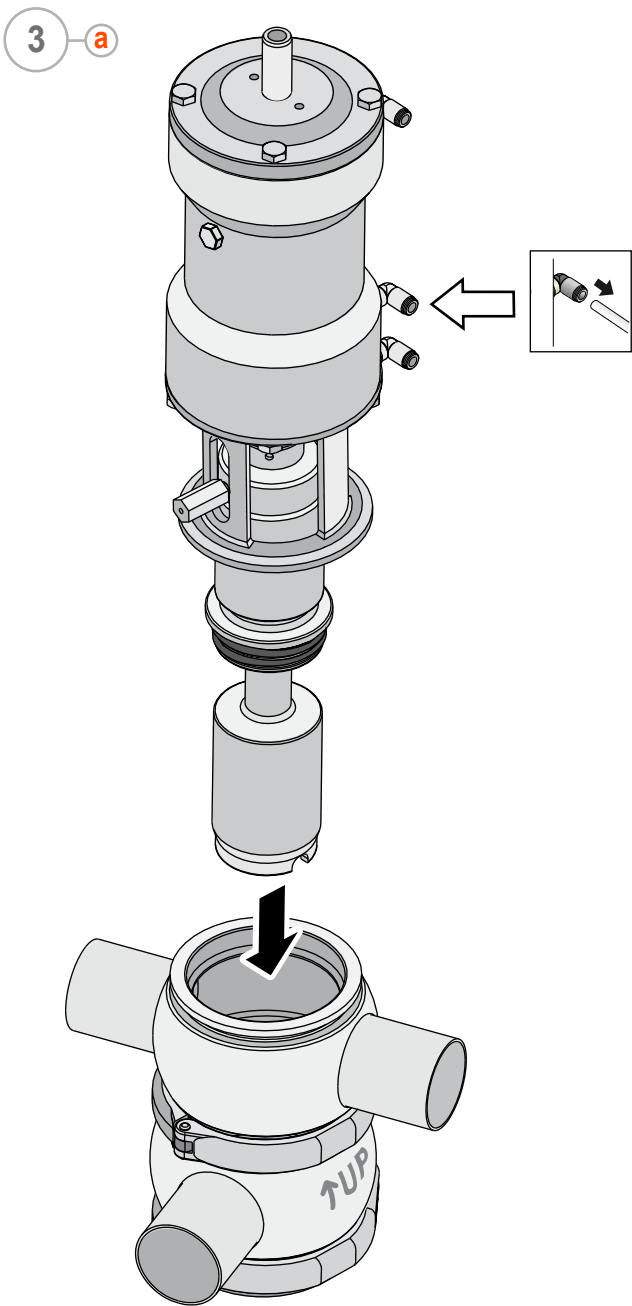
= component present in the spring block (supplied assembled)

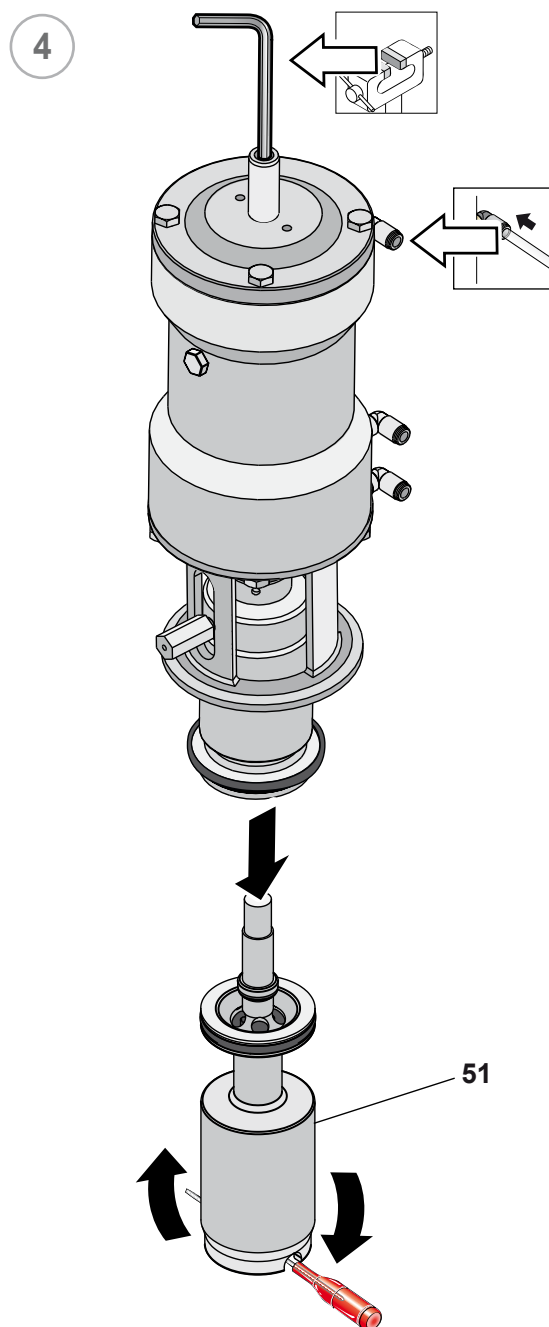


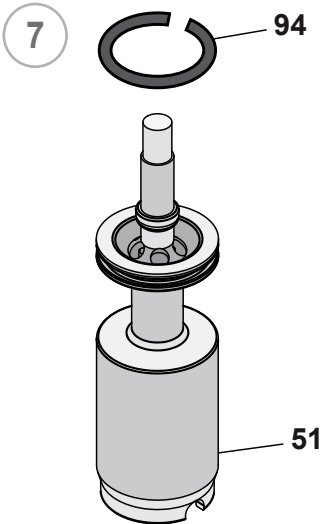
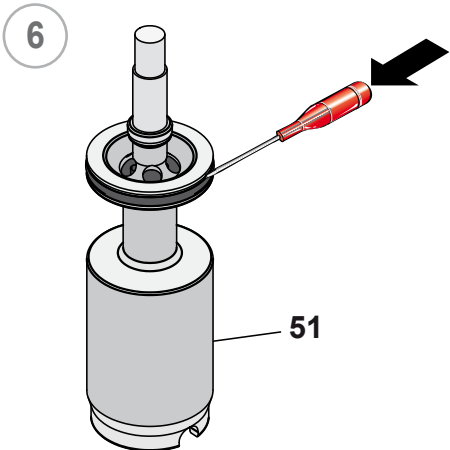
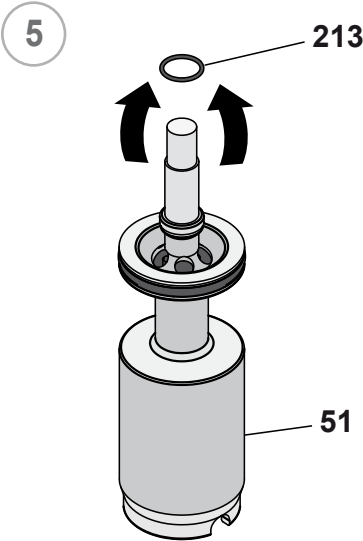


13 Disassembly of the B925 - B925B - B925V - B925A

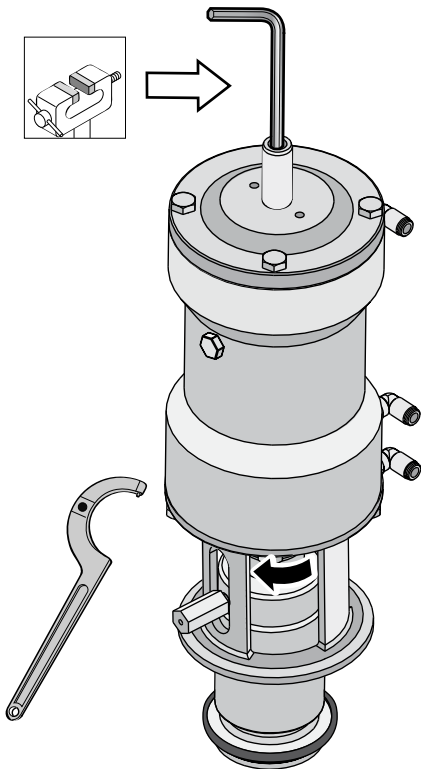




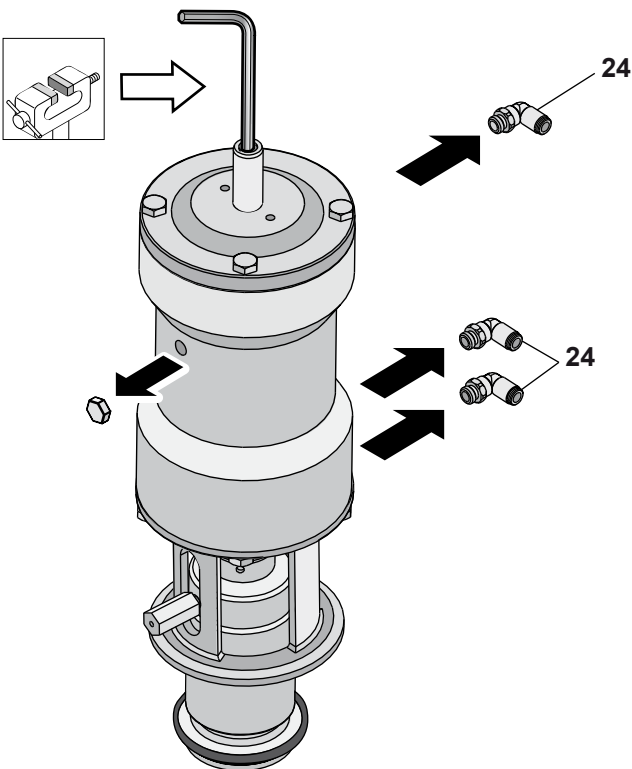




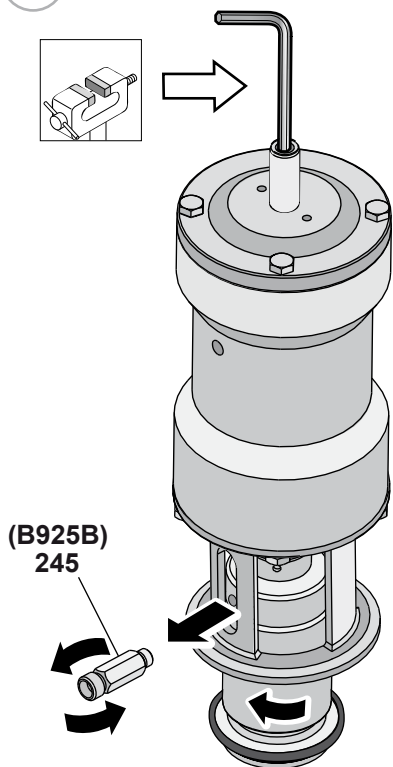
8



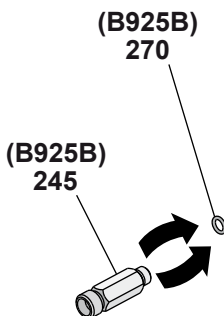
9



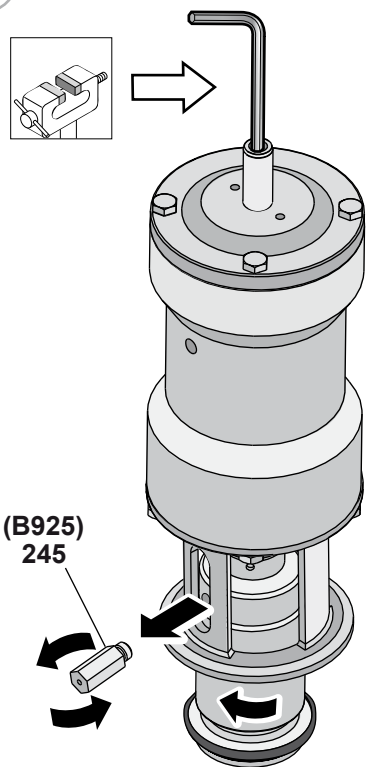
10 a



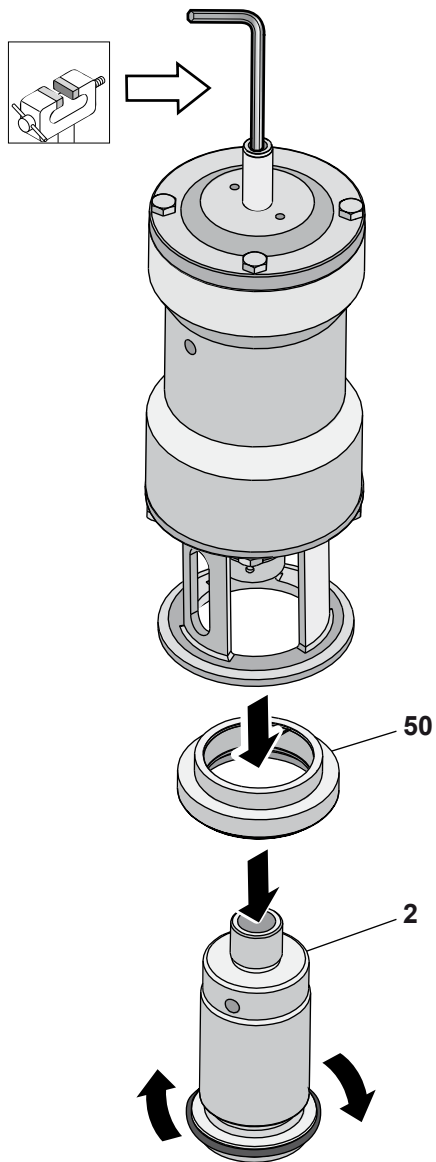
11 a



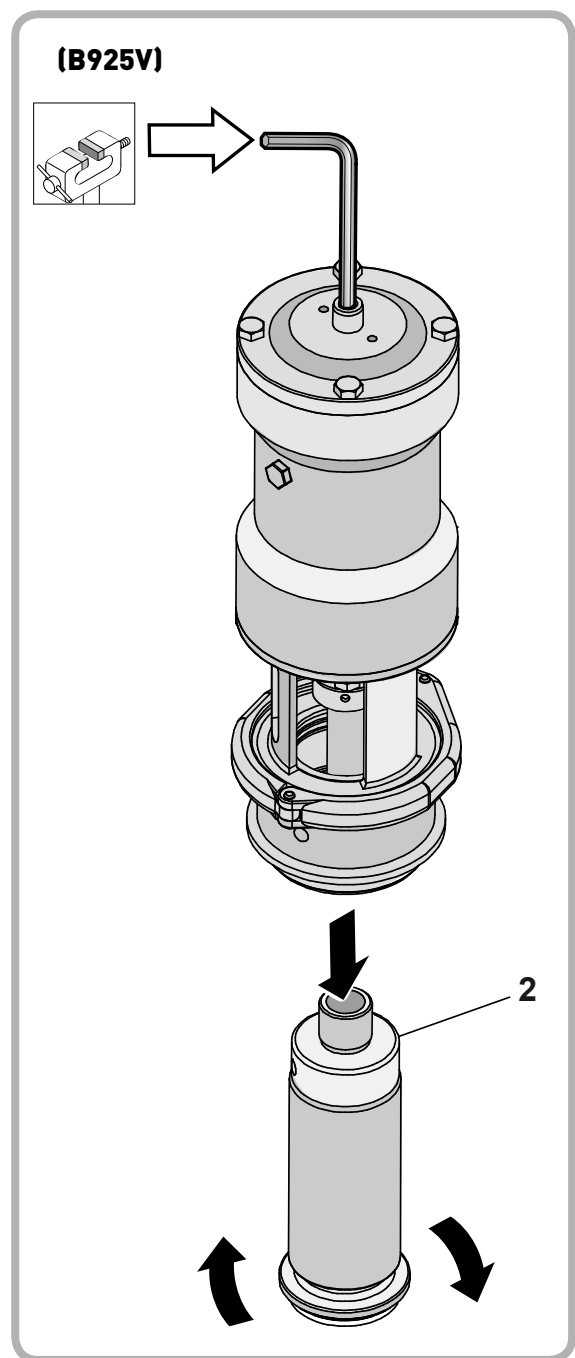
10 b



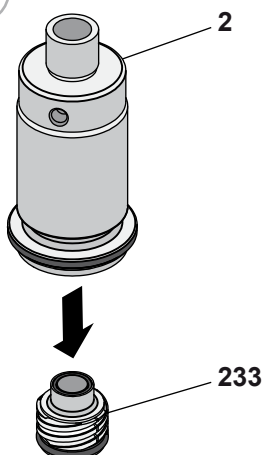
12 a



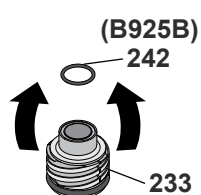
12 d



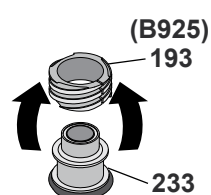
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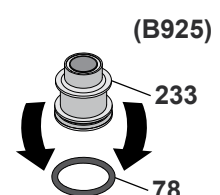
14 a

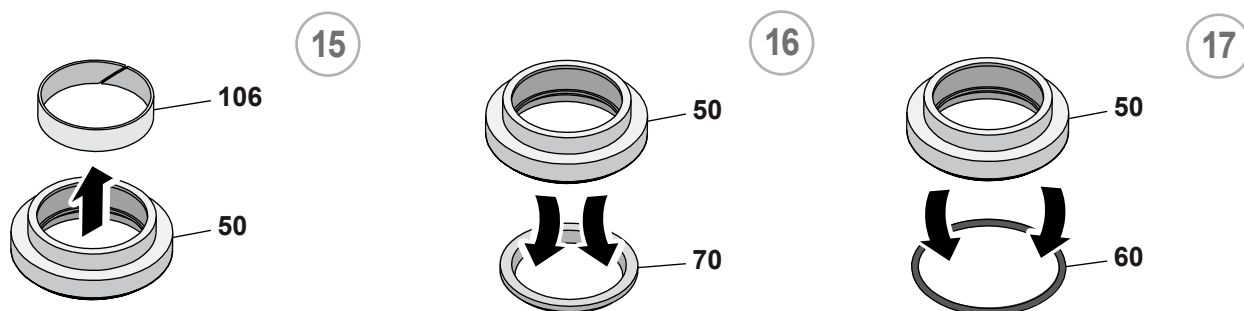


14 b

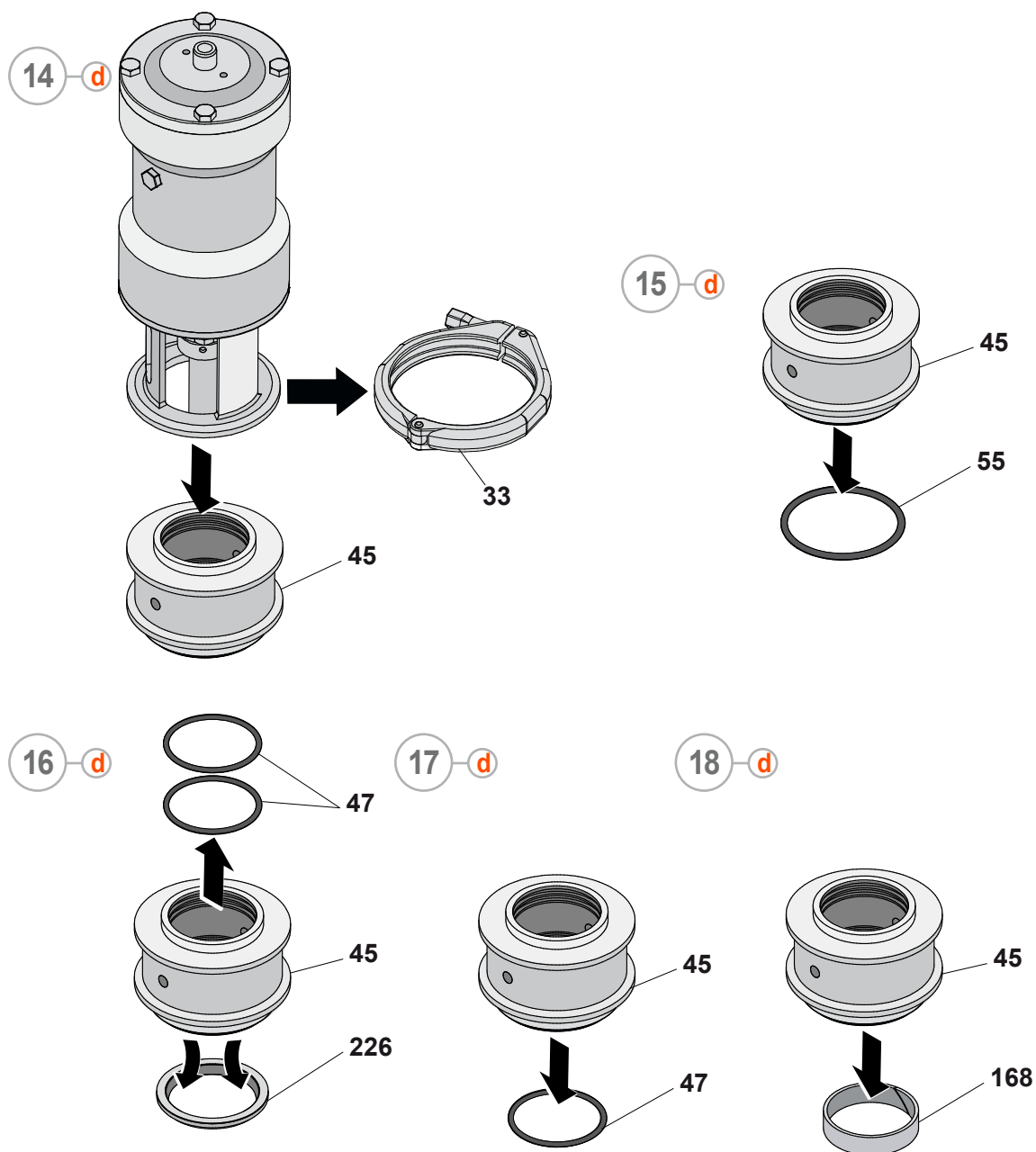


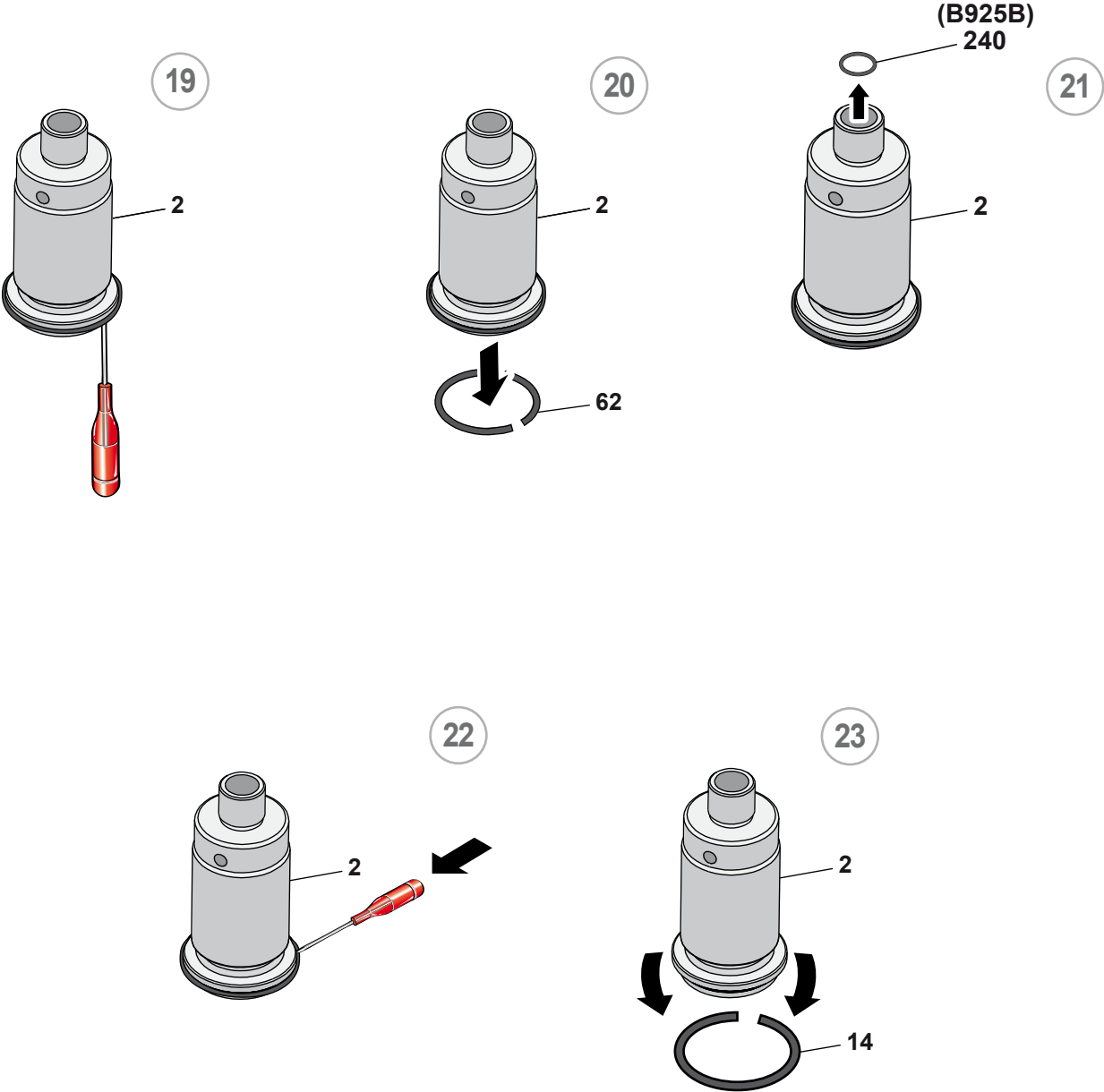
14 c

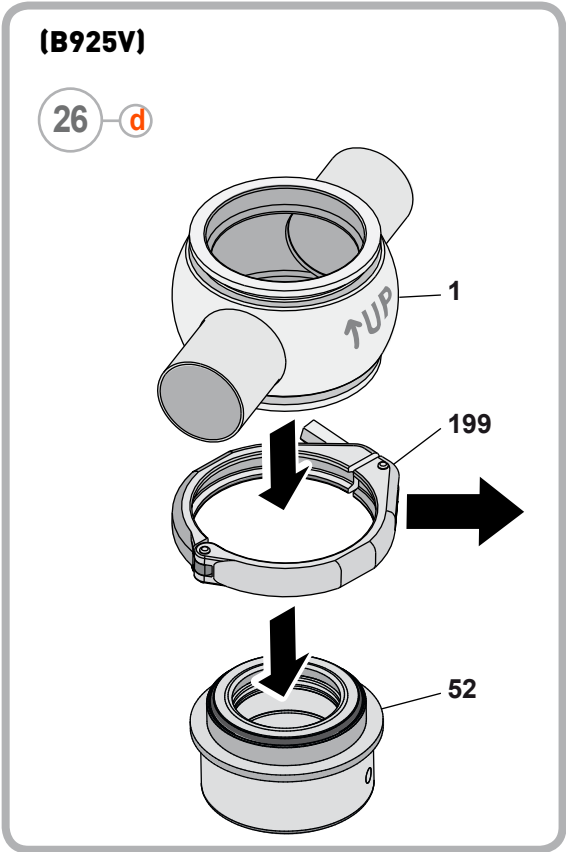
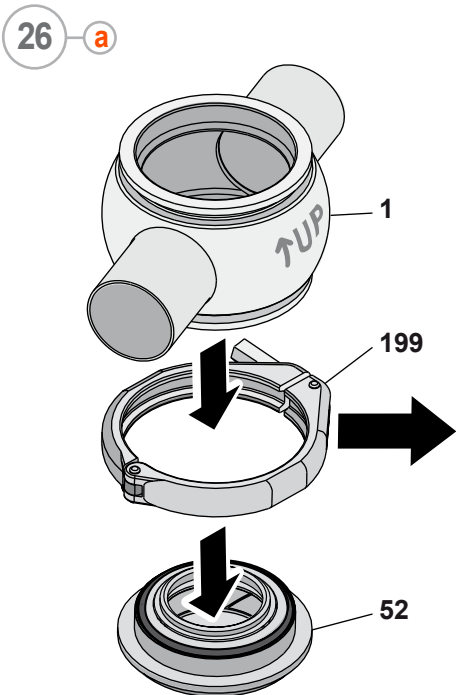
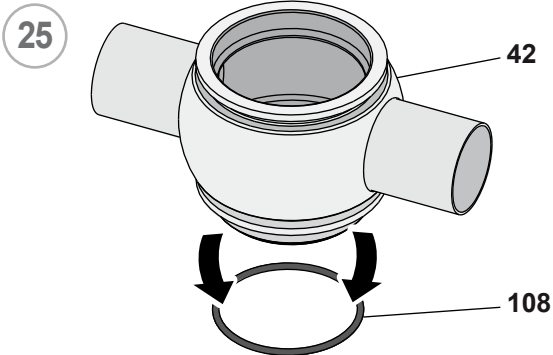
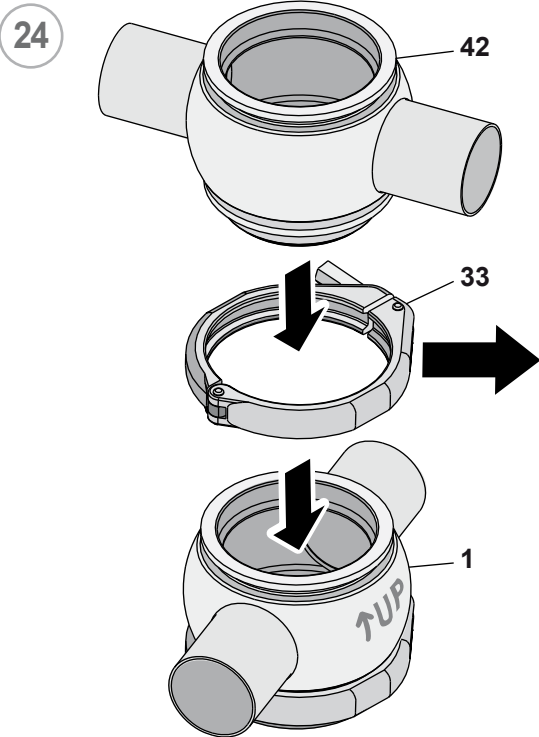




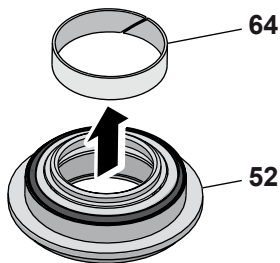
(B925V)



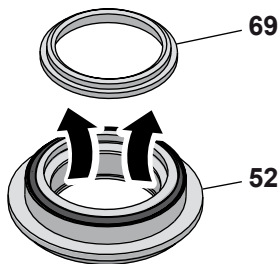




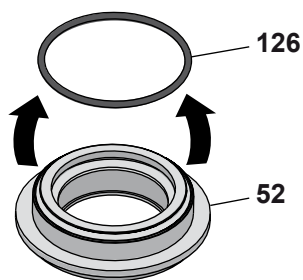
27 a



28 a

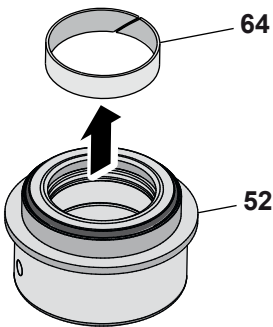


29 a

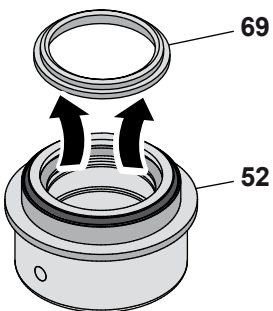


(B925V)

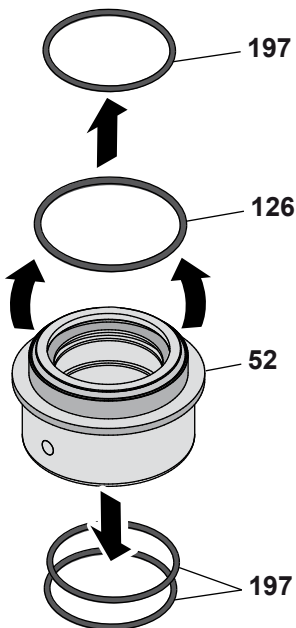
27 d



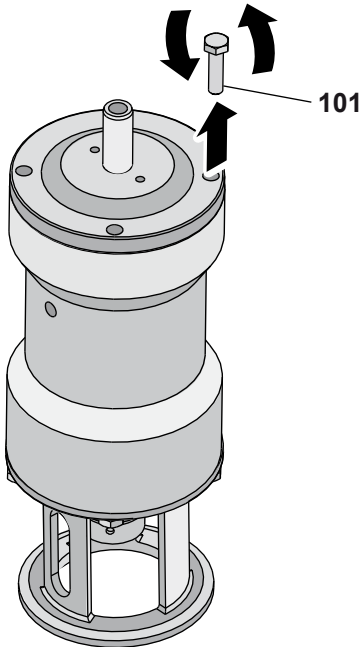
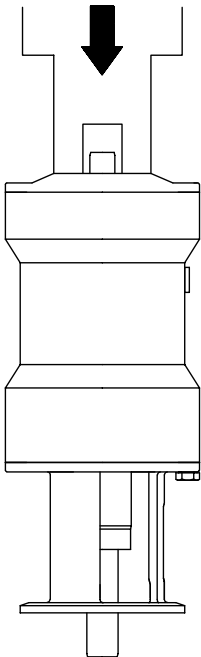
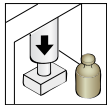
28 d



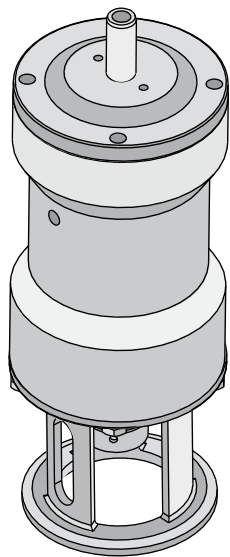
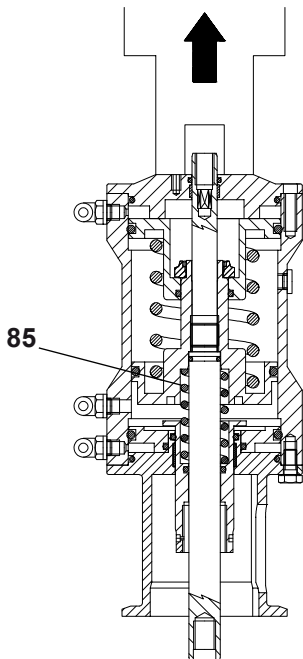
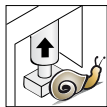
29 d

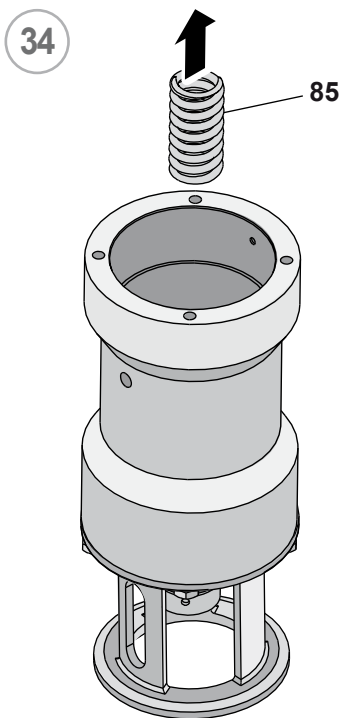
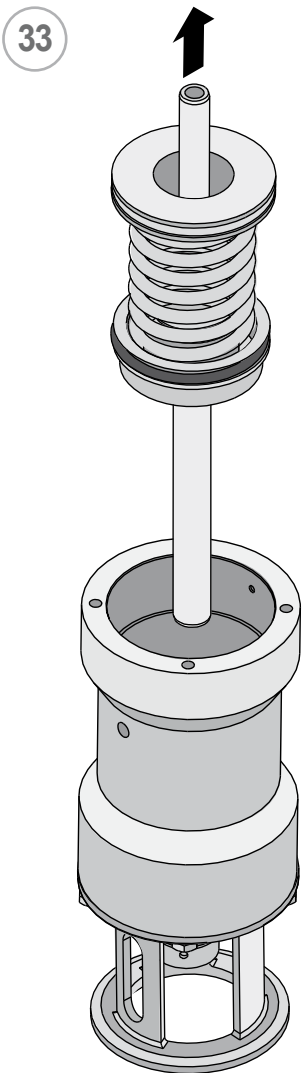
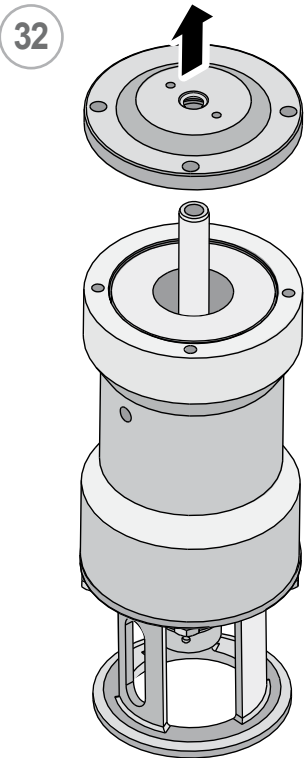


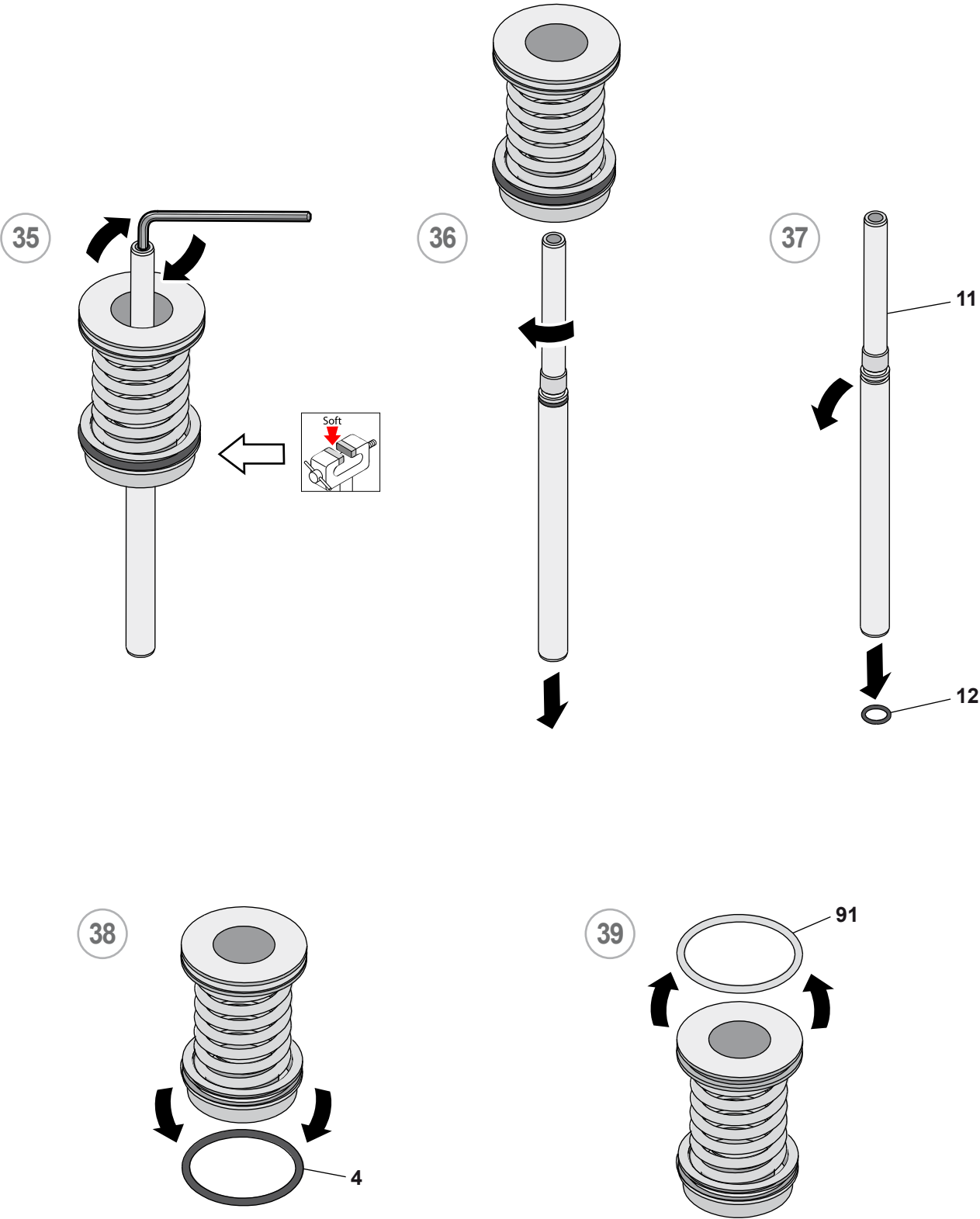
30

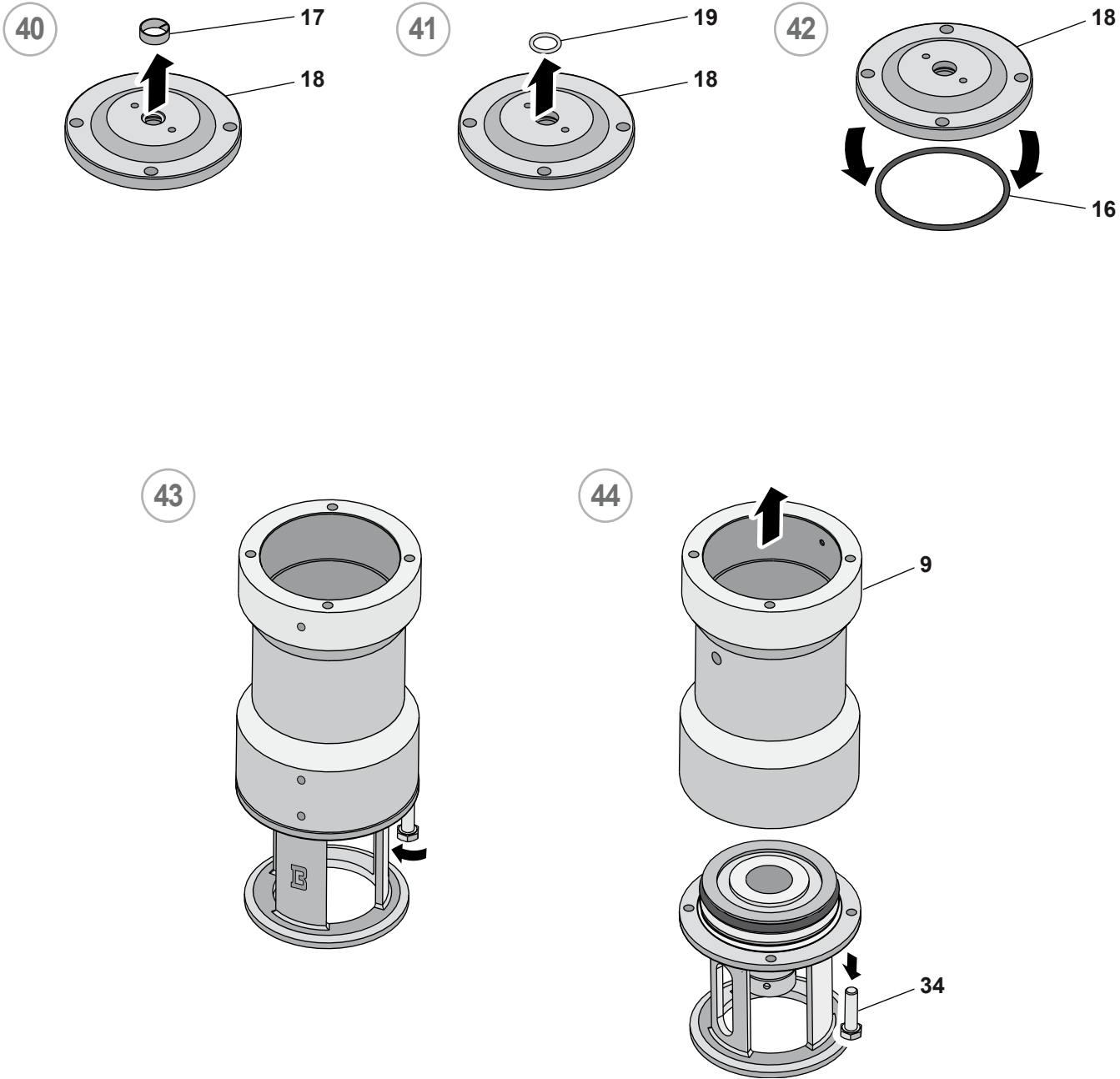


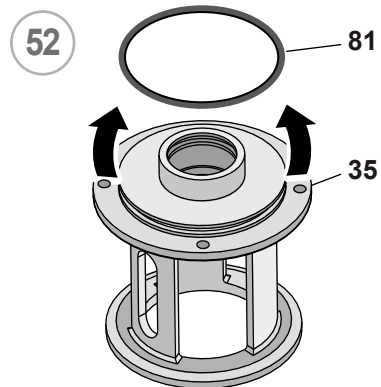
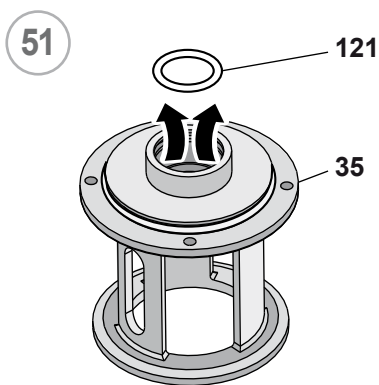
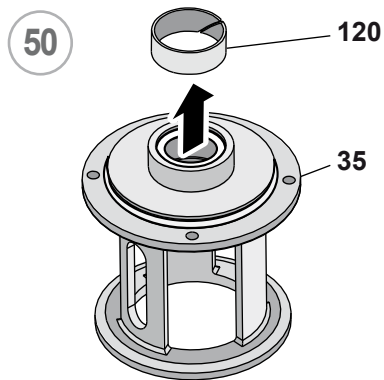
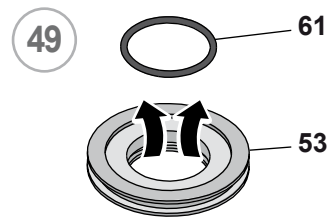
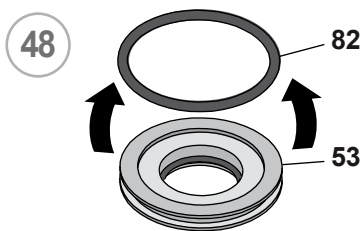
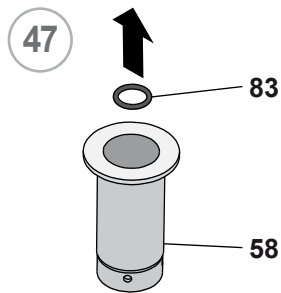
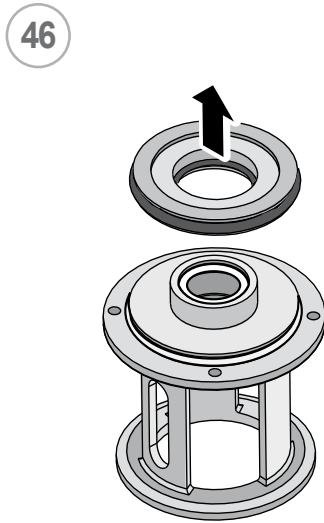
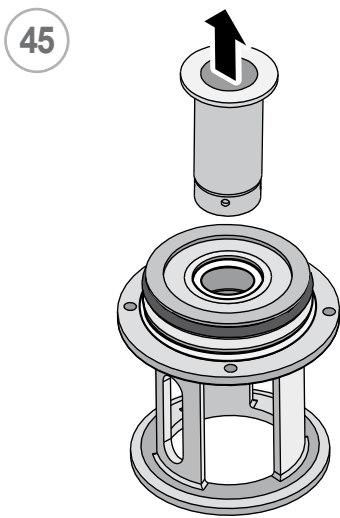
31



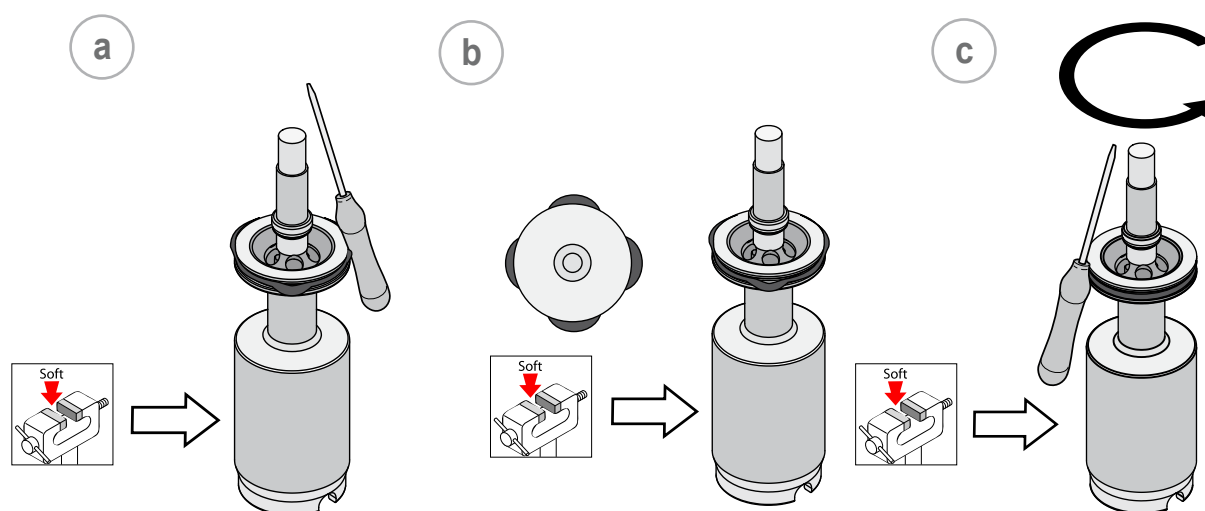
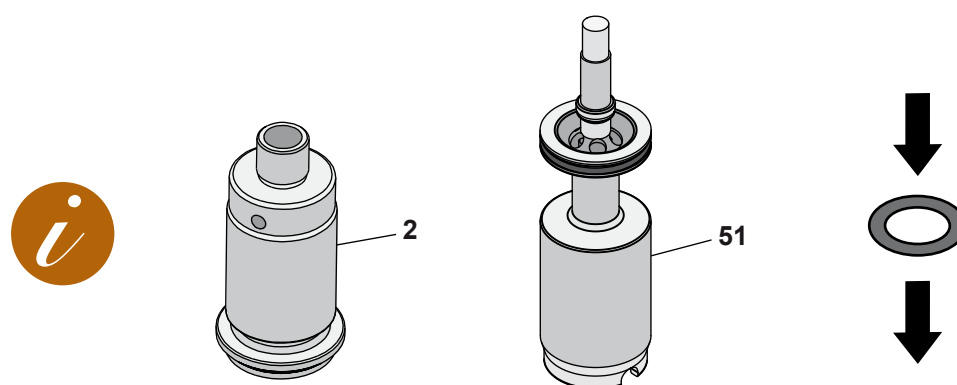
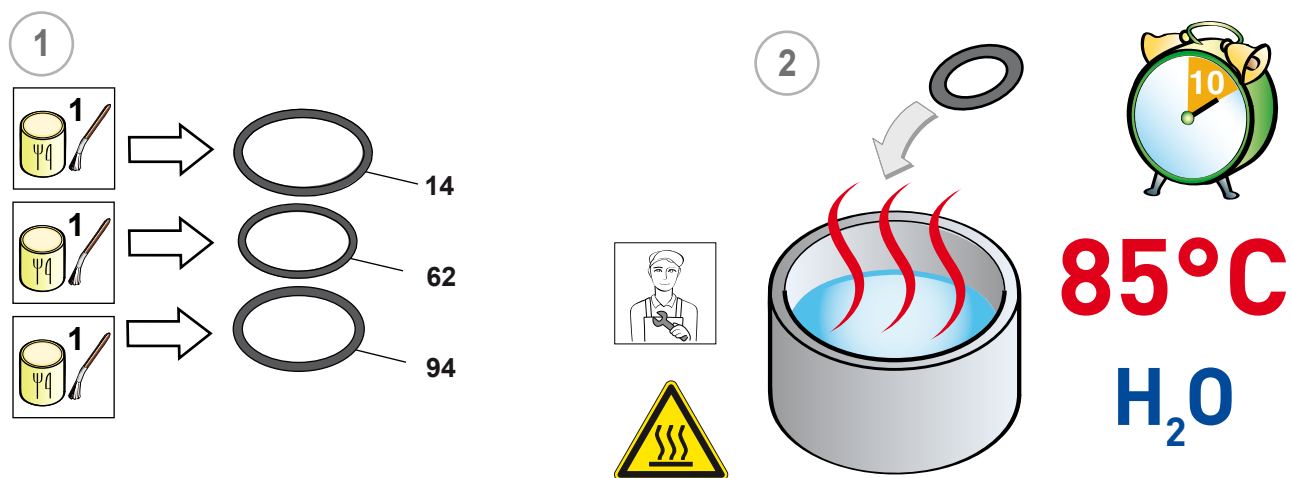


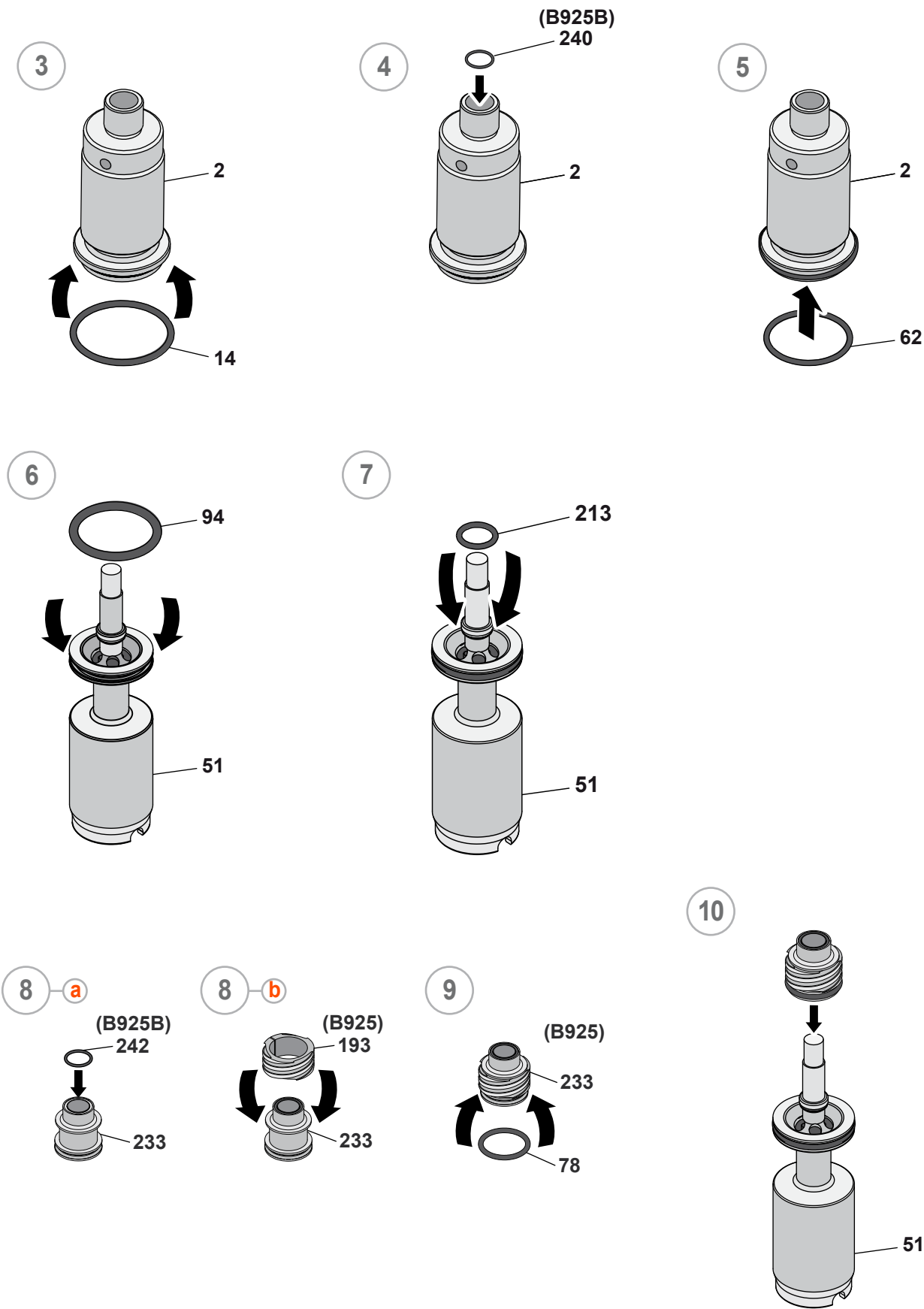




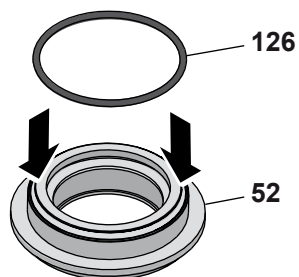


14 Assembly of the B925 - B925B - B925V - B925A

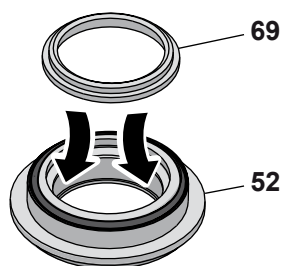




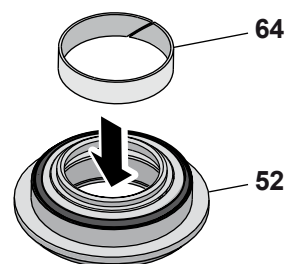
11 - a



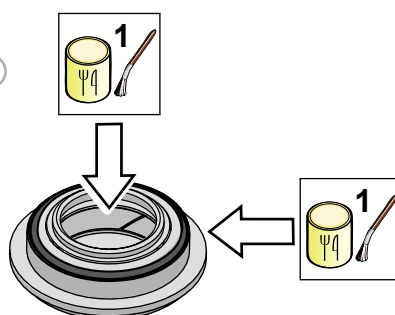
12 - a



13 - a

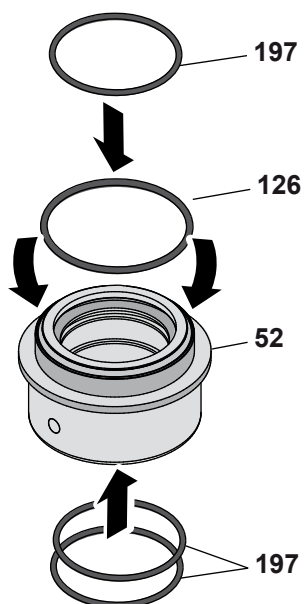


14 - a

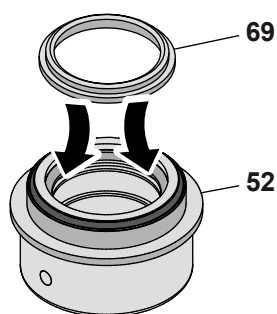


(B925V)

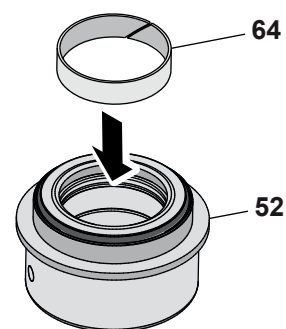
11 - d



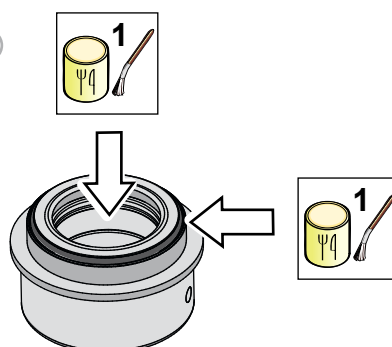
12 - d

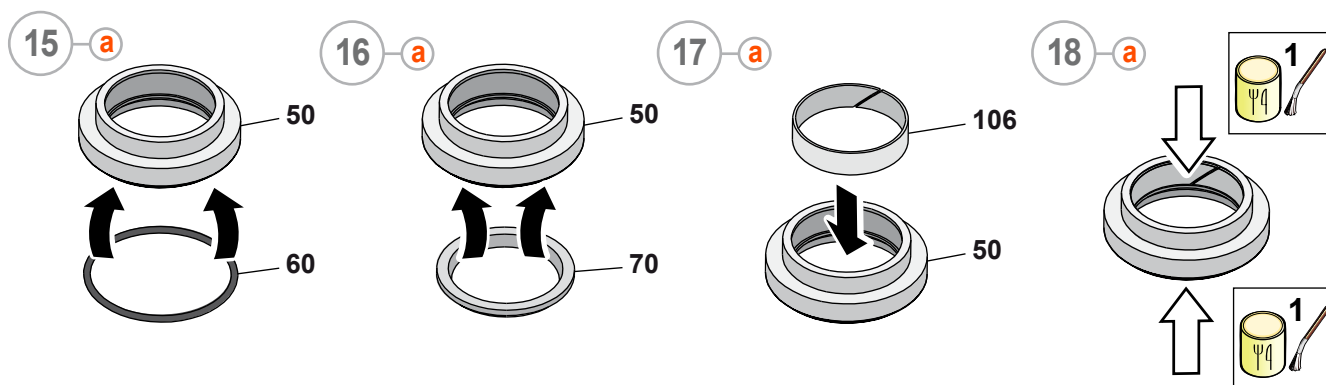


13 - d

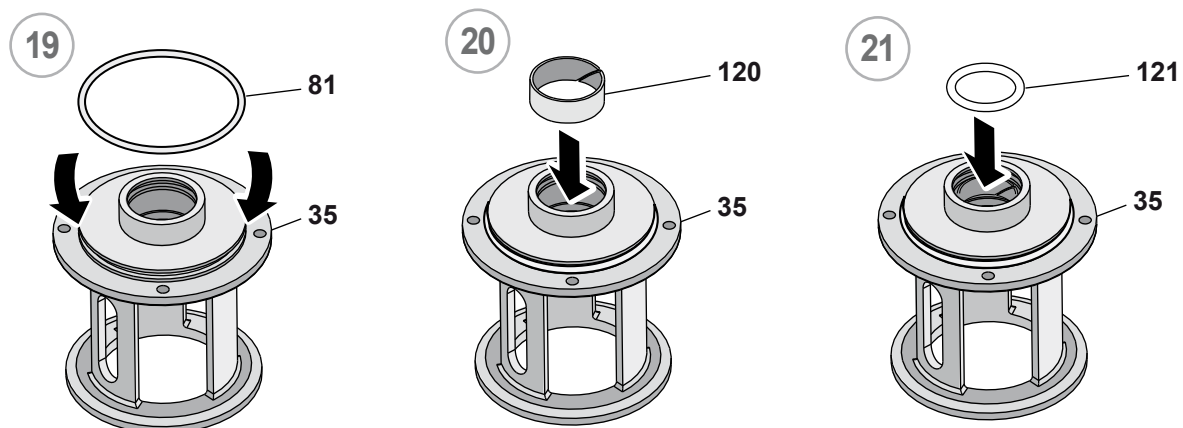
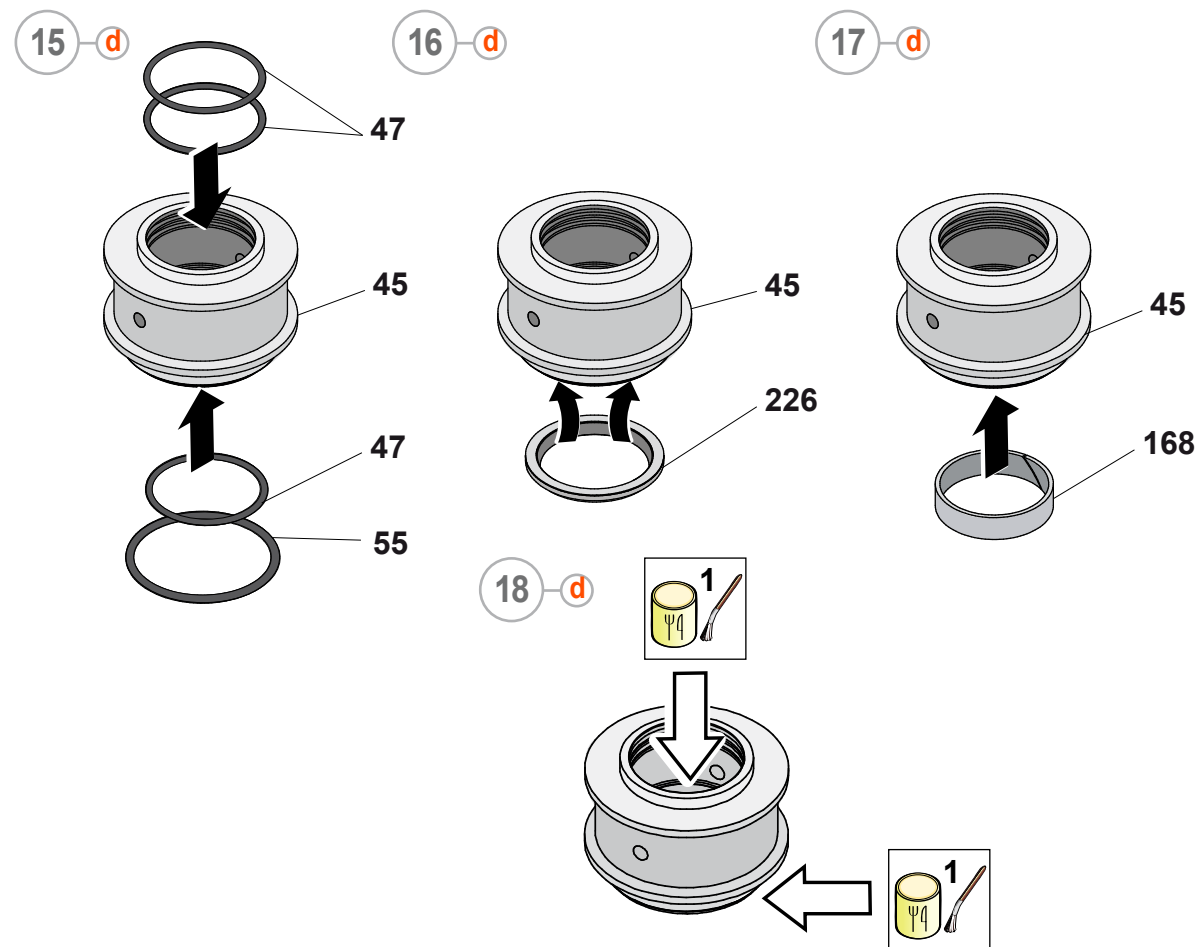


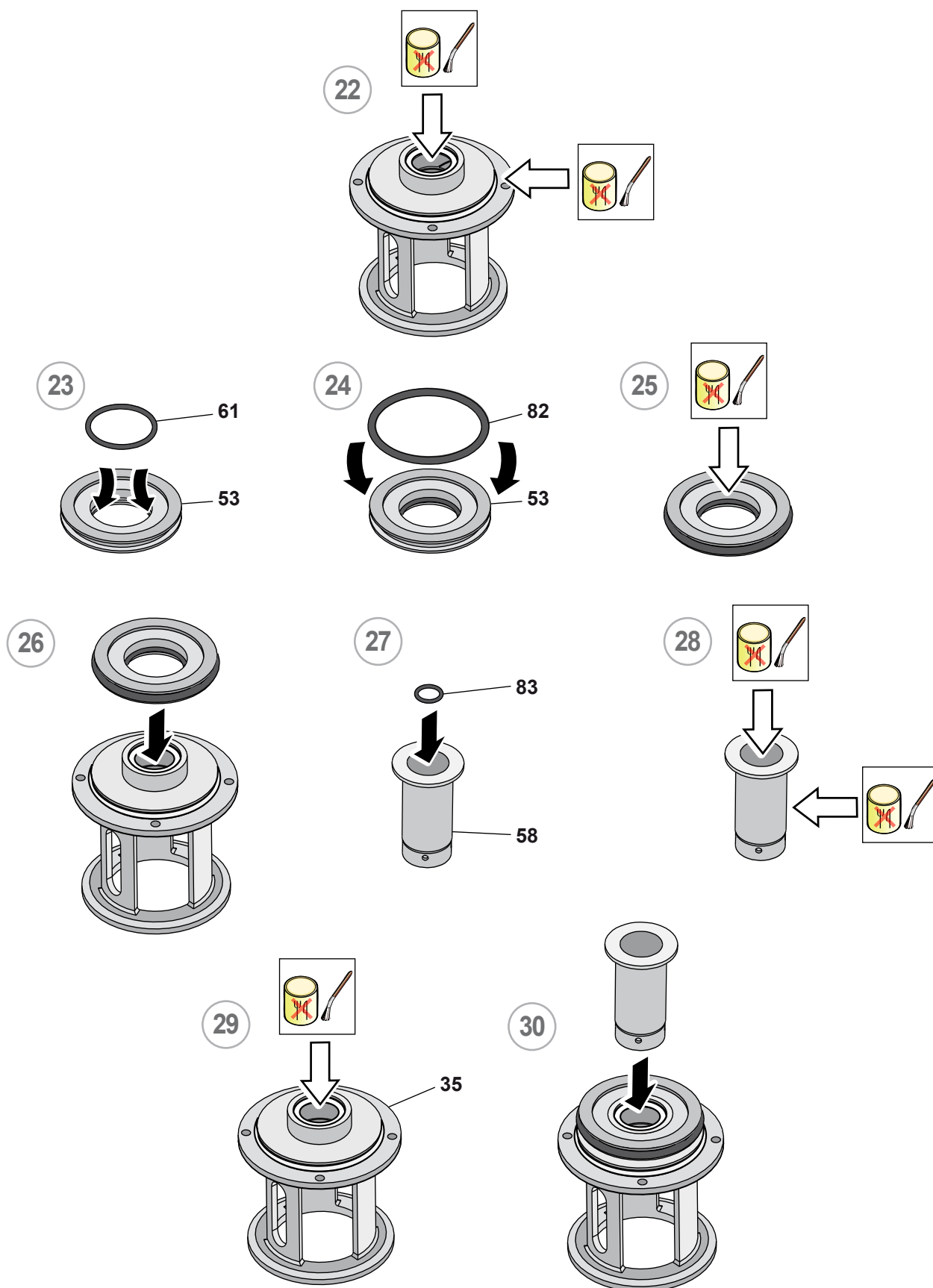
14 - d

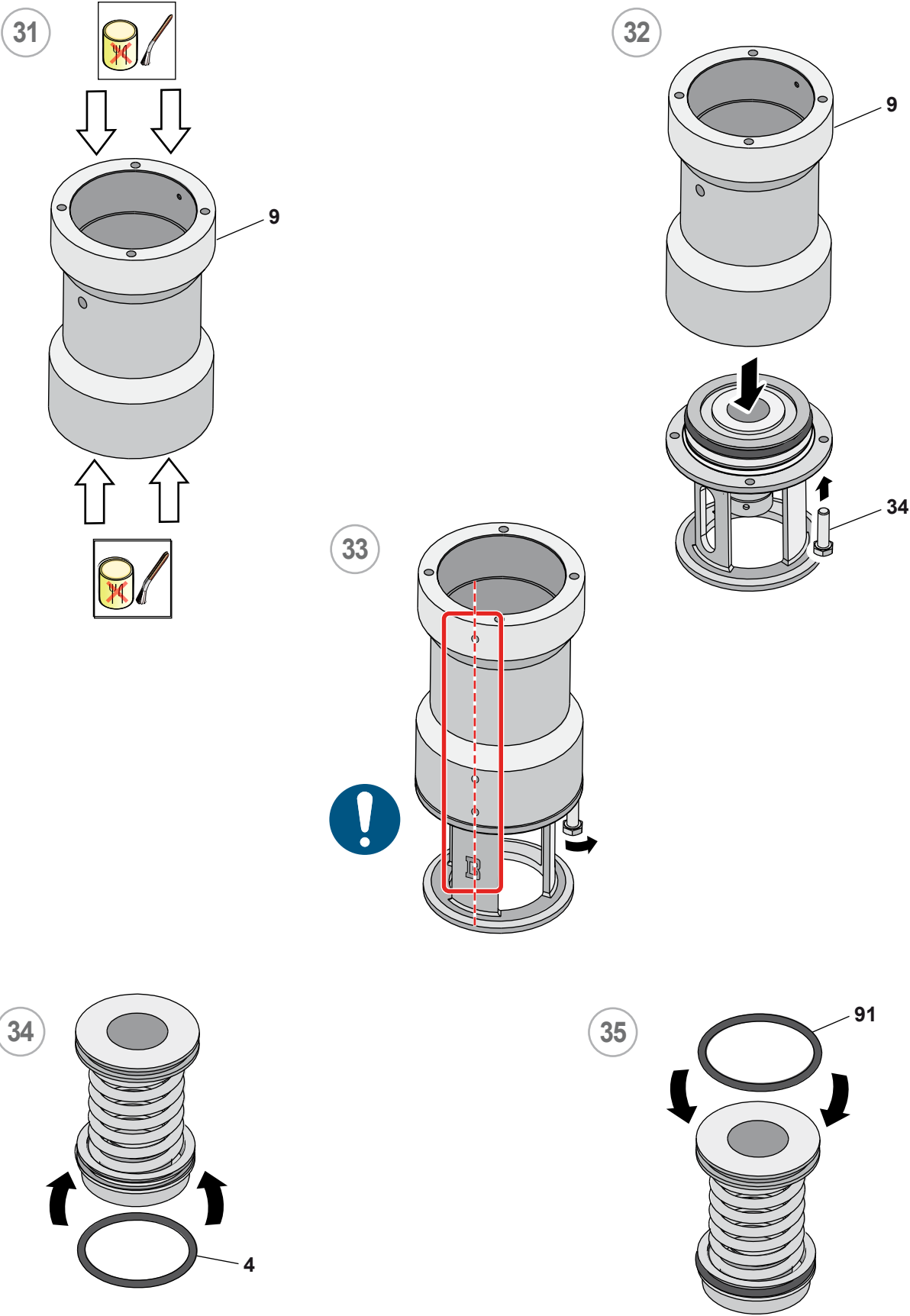


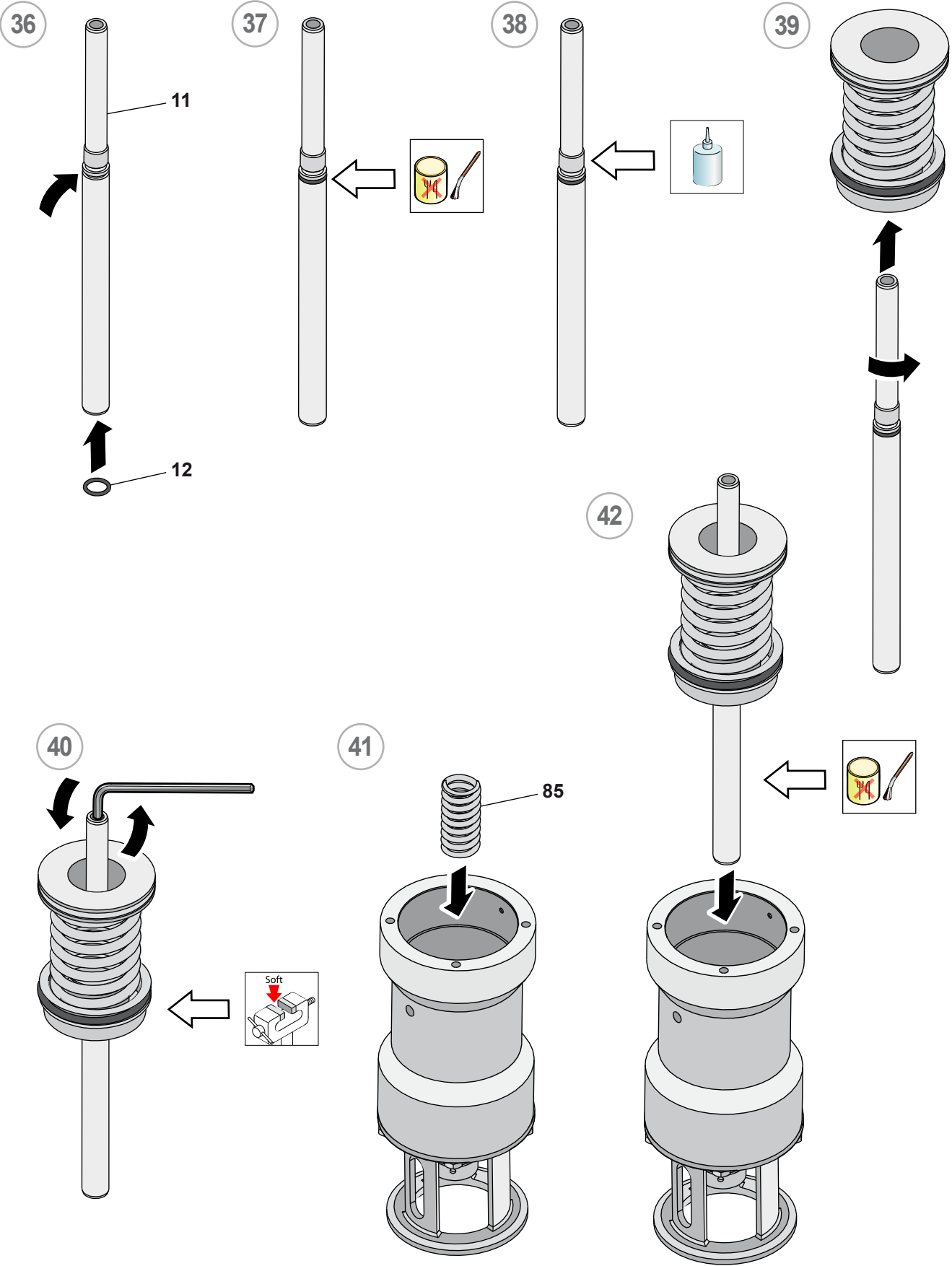


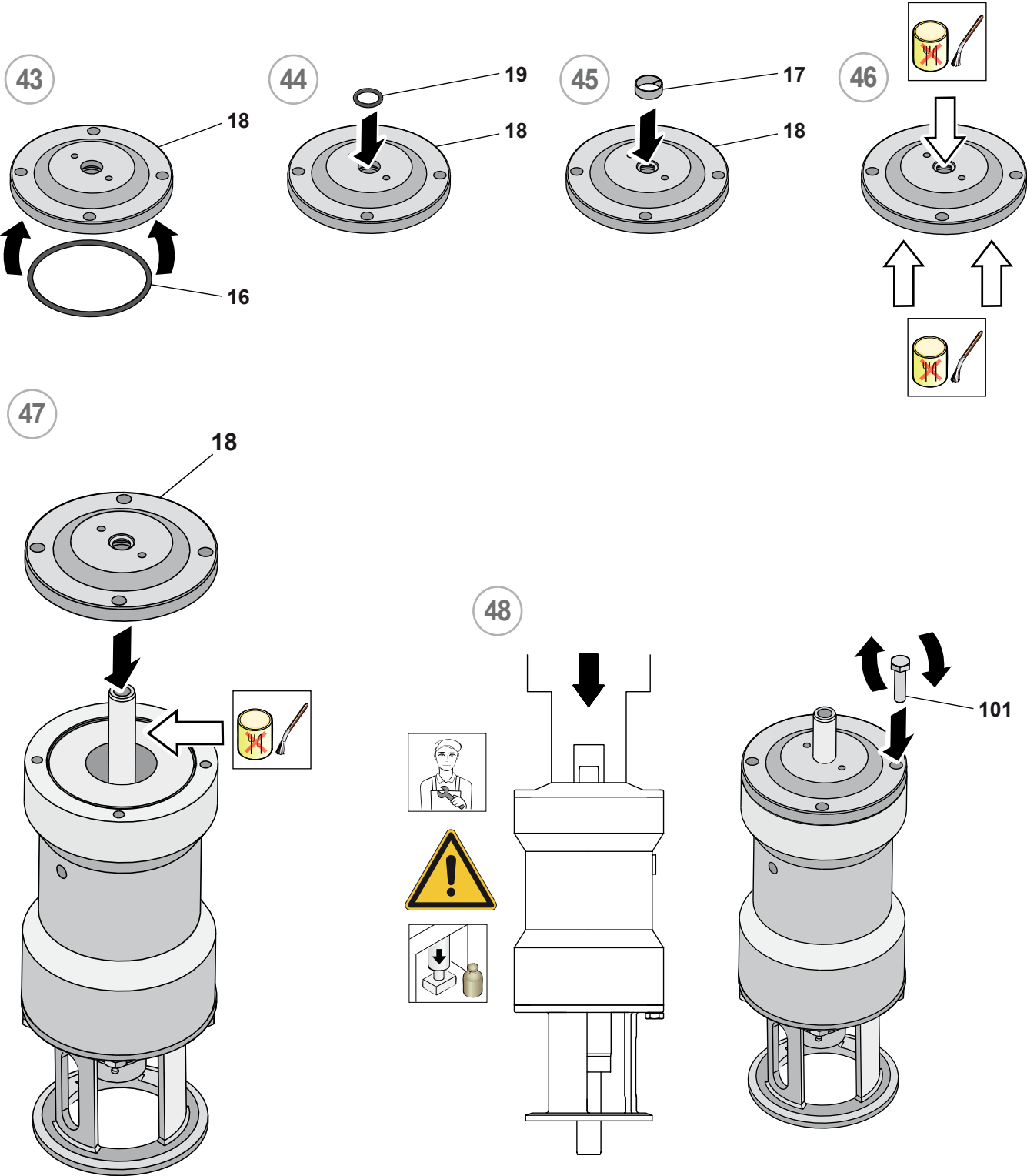
(B925V)



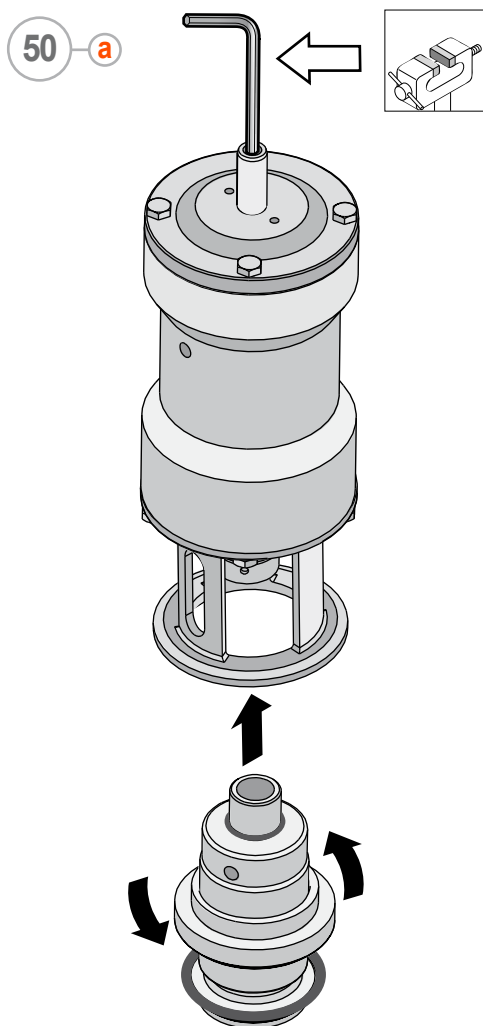
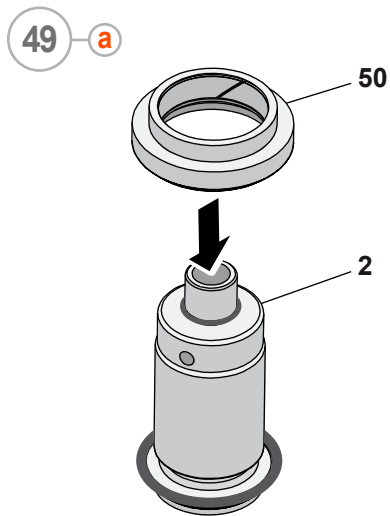




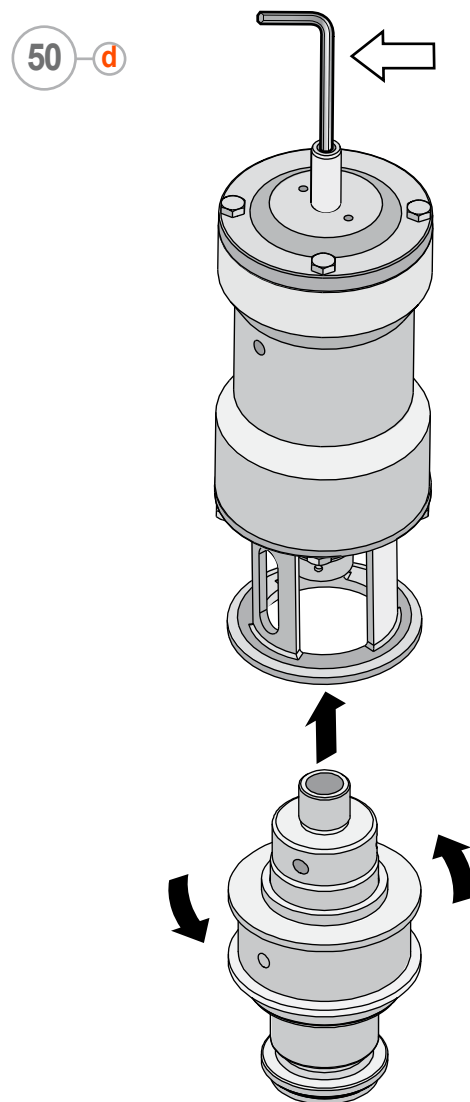
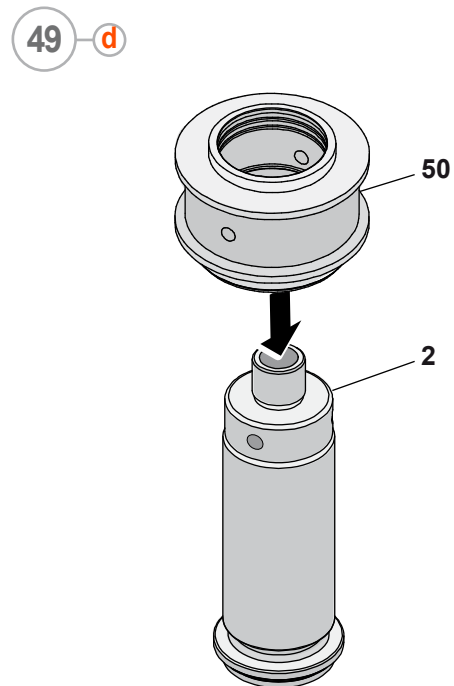




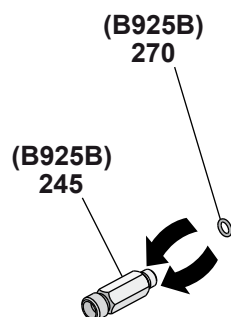
(B925)



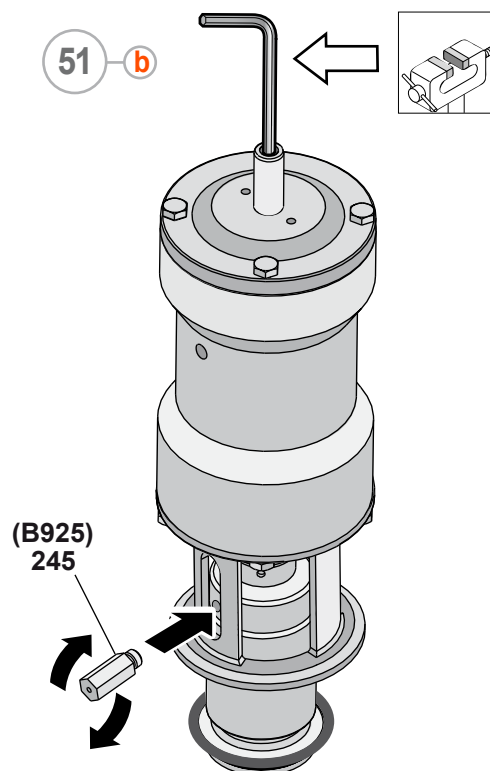
(B925V)



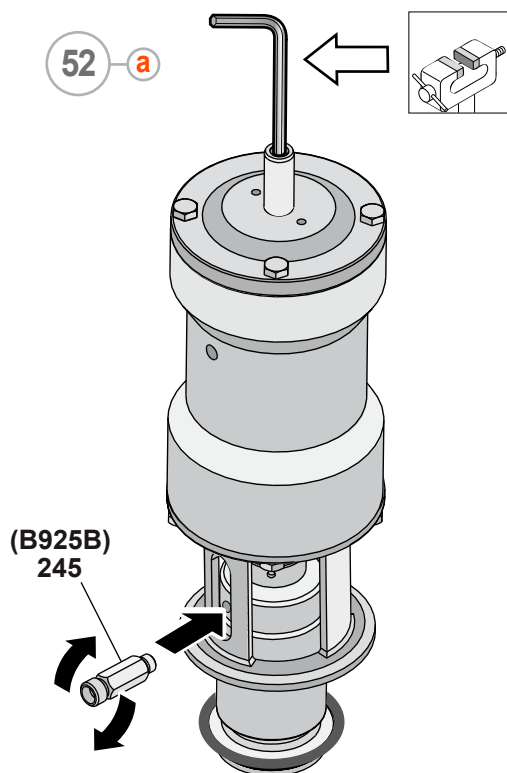
51 a

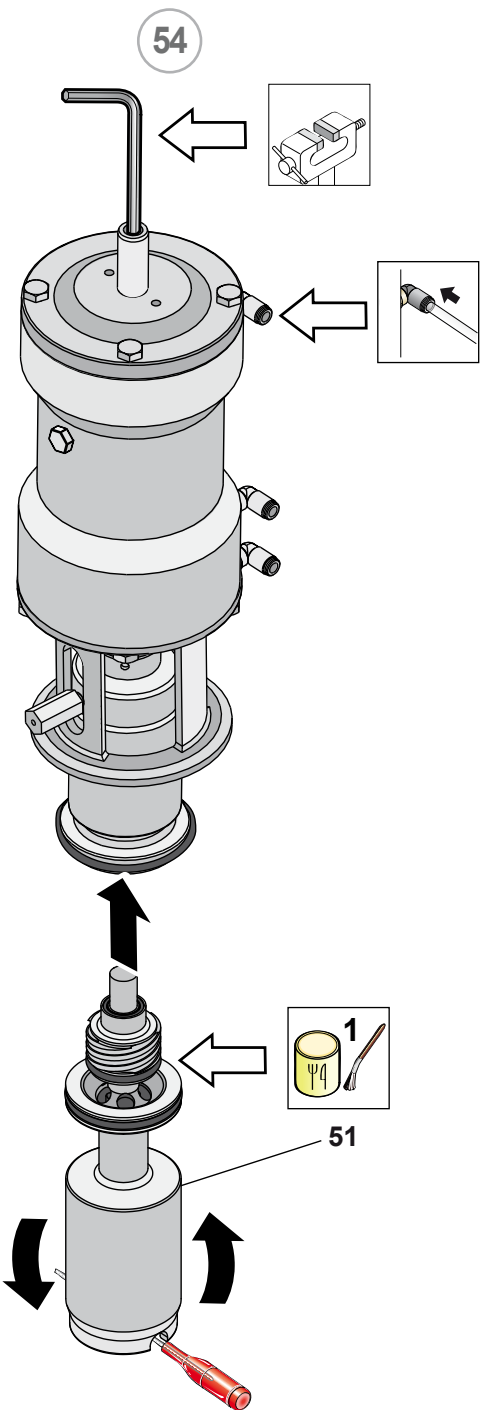
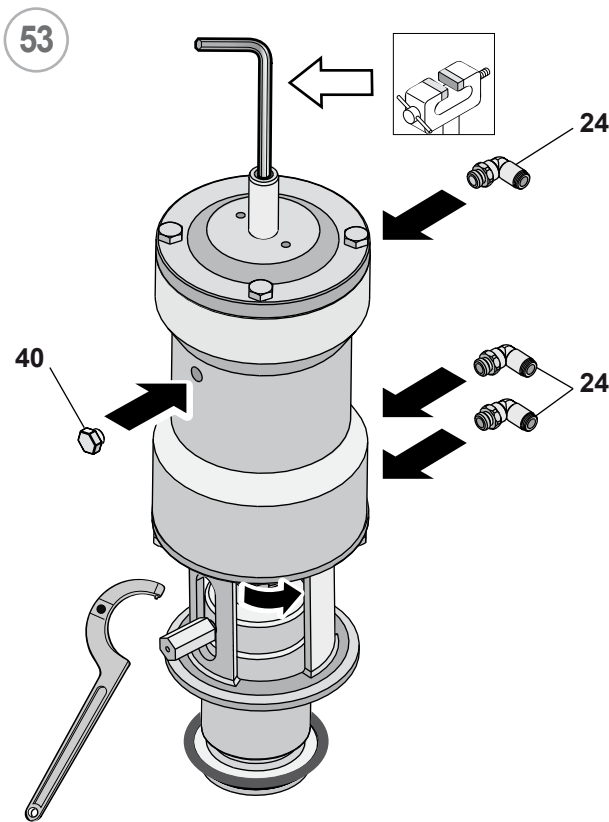


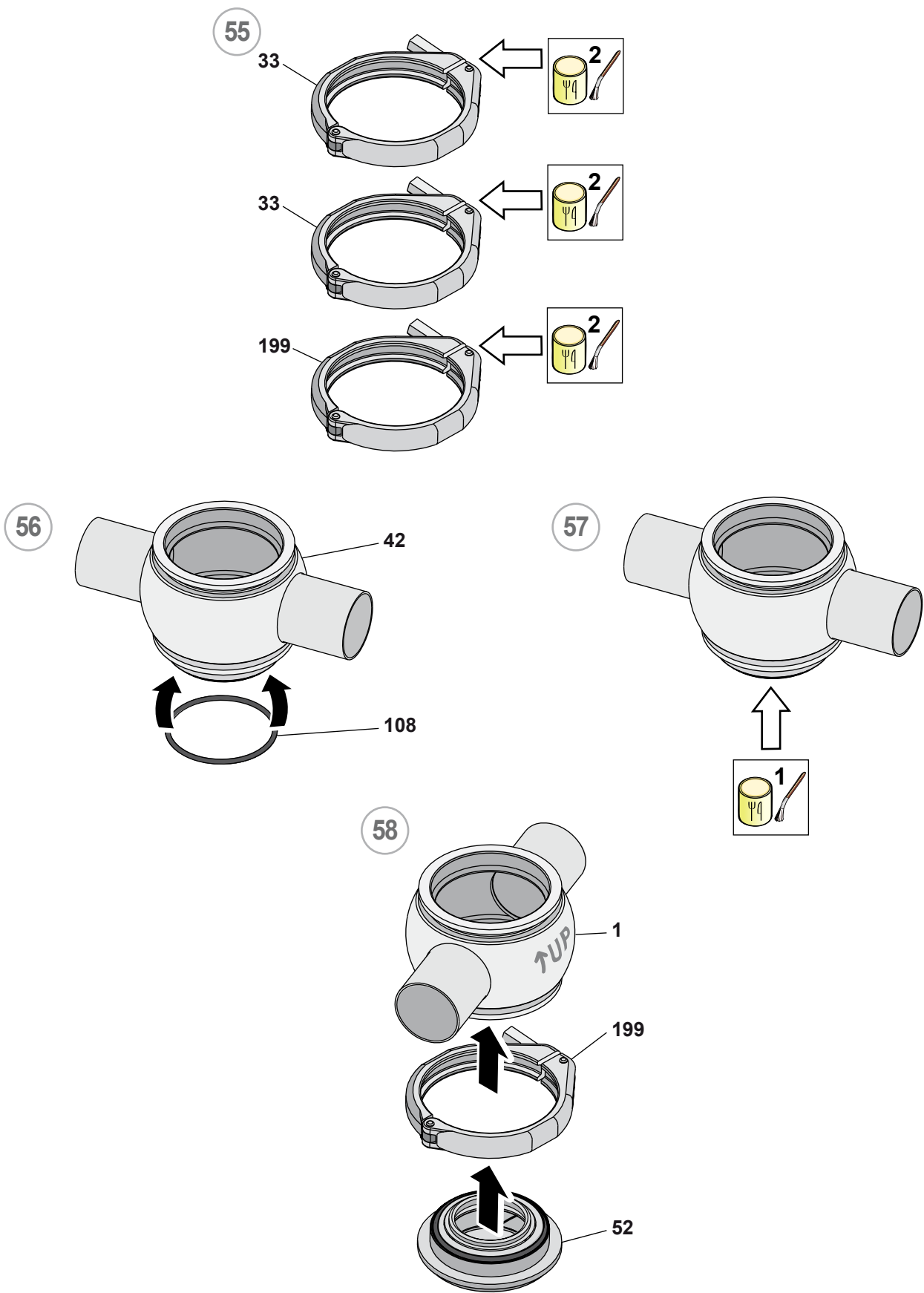
51 b



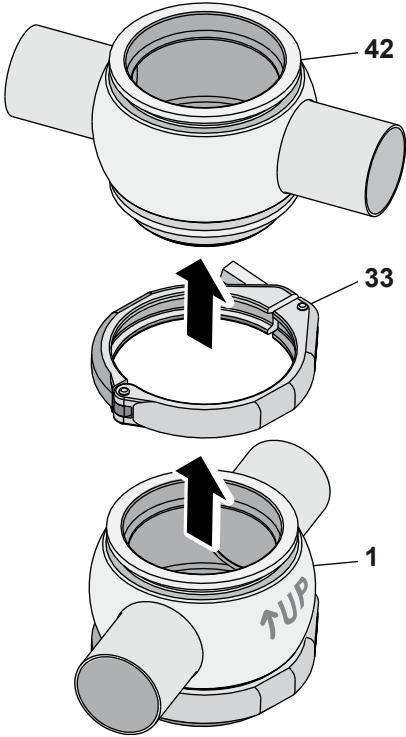
52 a



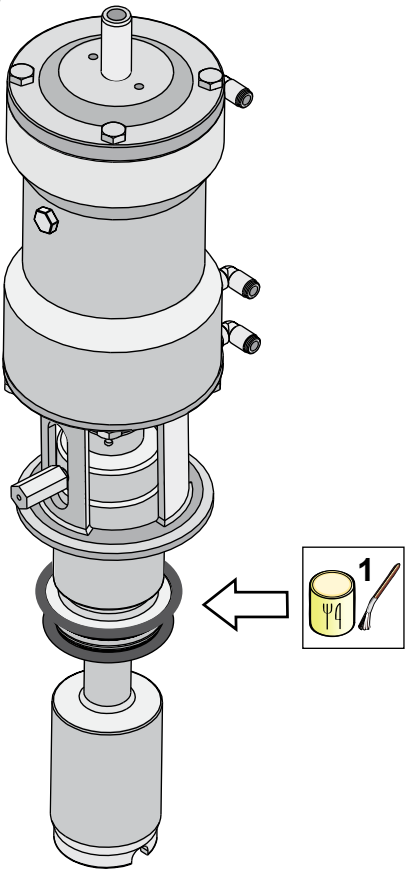




59

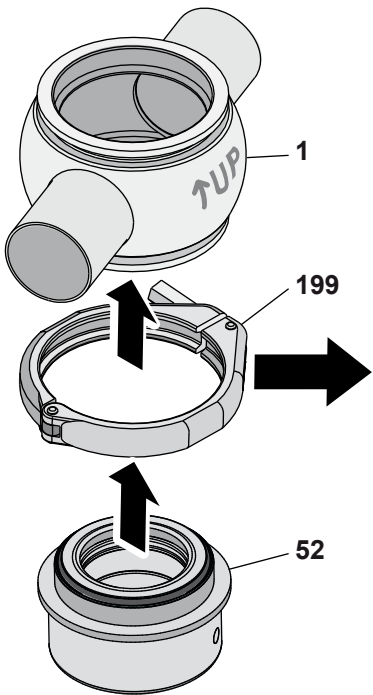


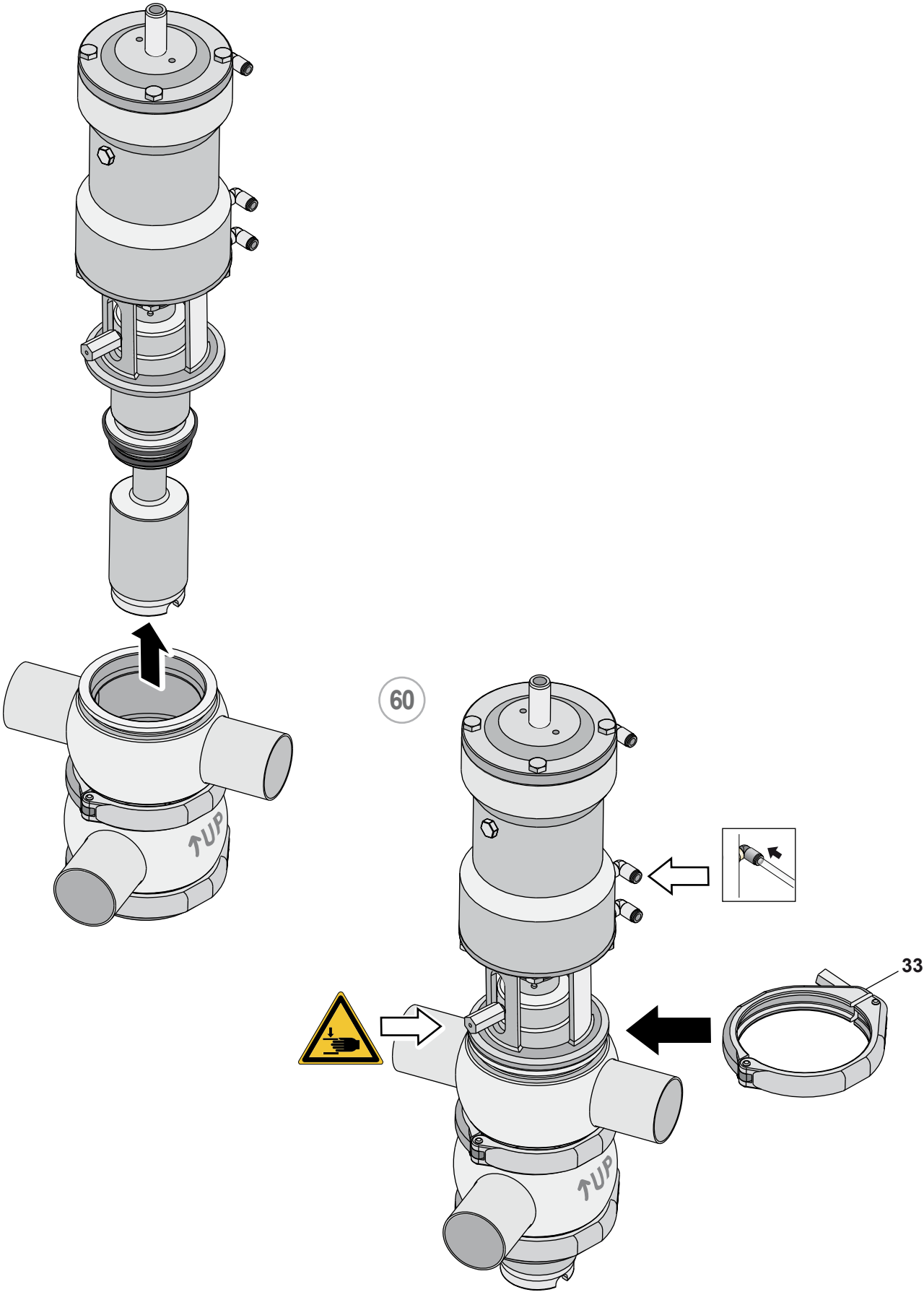
60

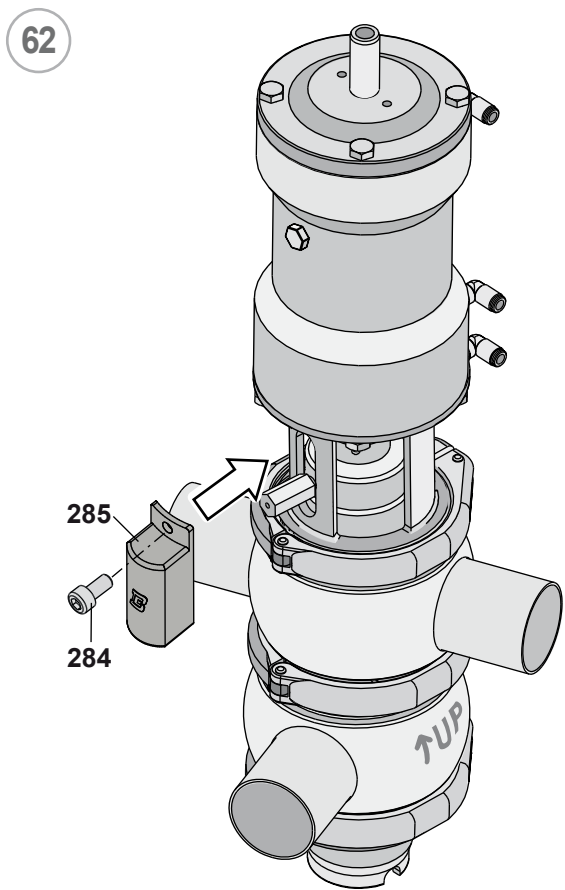


(B925V)

59 **d**

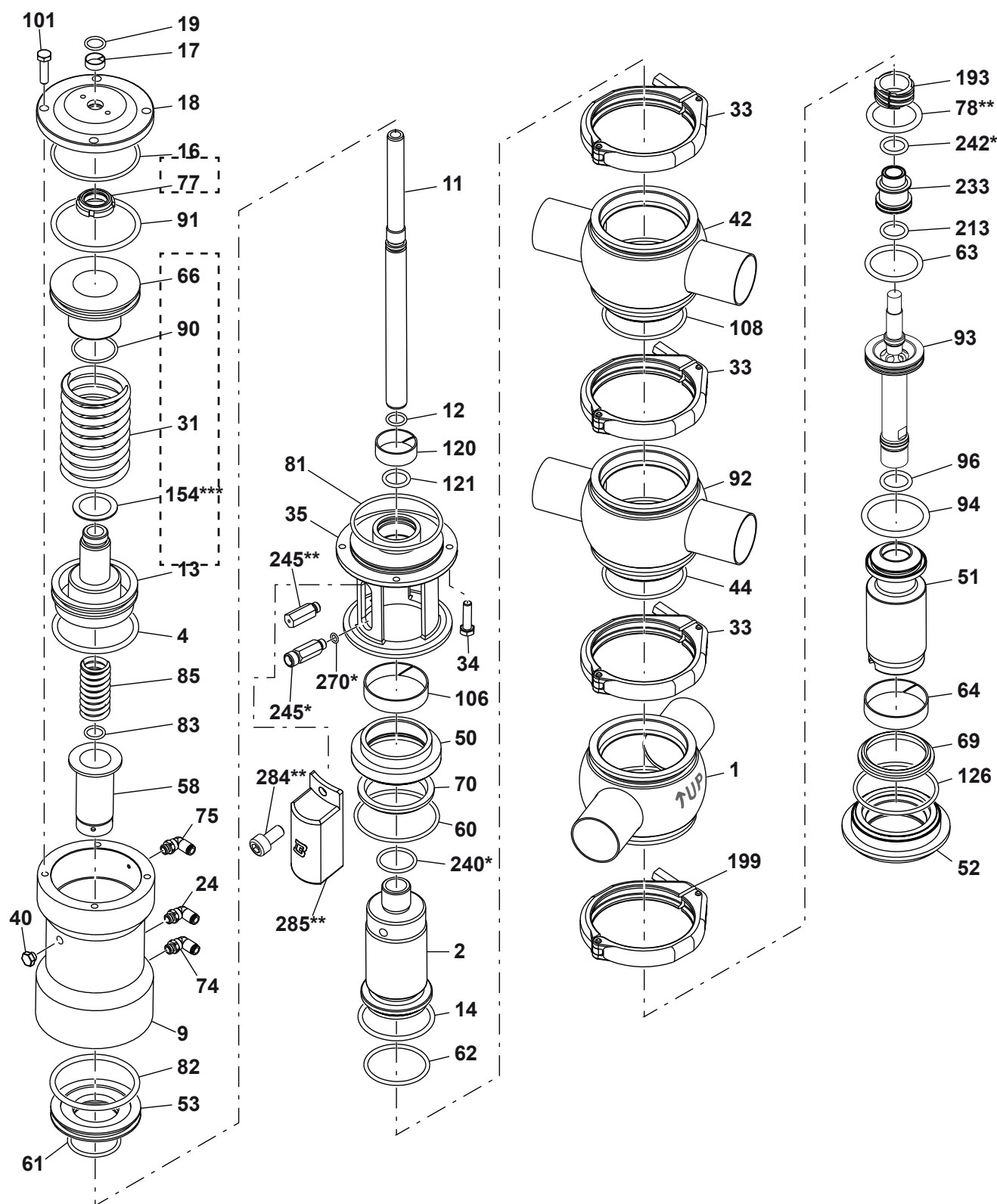






15 Mixproof valve B925 - B925B Diverter

NO.	DESCRIPTION	NO.	DESCRIPTION
1	Bottom body/double body	77	Nut
2	Upper shutter	78	Sealing ring
4	Sealing ring	81	Sealing ring
9	Cylinder	82	Sealing ring
11	Pin	83	Sealing ring
12	Sealing ring	85	Secondary spring
13	Central piston	90	Sealing ring
14	Sealing ring	91	Sealing ring
16	Sealing ring	92	Intermediate body
17	Bush	93	Intermediate valve member
18	Buffer	94	Sealing ring
19	Sealing ring	96	Sealing ring
24	Air connector	101	Screw
31	Spring	106	Bush
33	Clamp	108	Sealing ring
34	Screw	120	Bush
35	Assembly	121	Sealing ring
40	Cap	126	Sealing ring
42	Upper body	154	Thickness
44	Sealing ring	193	Bush
50	Gasket holder disc	199	Clamp
51	Lower shutter	213	Sealing ring
52	Cap	233	Disk
53	Lower piston	240	Sealing ring
58	Drive sleeve	242	Sealing ring
60	Sealing ring	245	Guide pin
61	Sealing ring	270	Sealing ring
62	Sealing ring	284	Screw
63	Sealing ring	285	Pin protection
64	Bush		
66	Upper piston		
69	Sealing ring		
70	Sealing ring		
74	Air connector		
75	Air connector		



Legend:

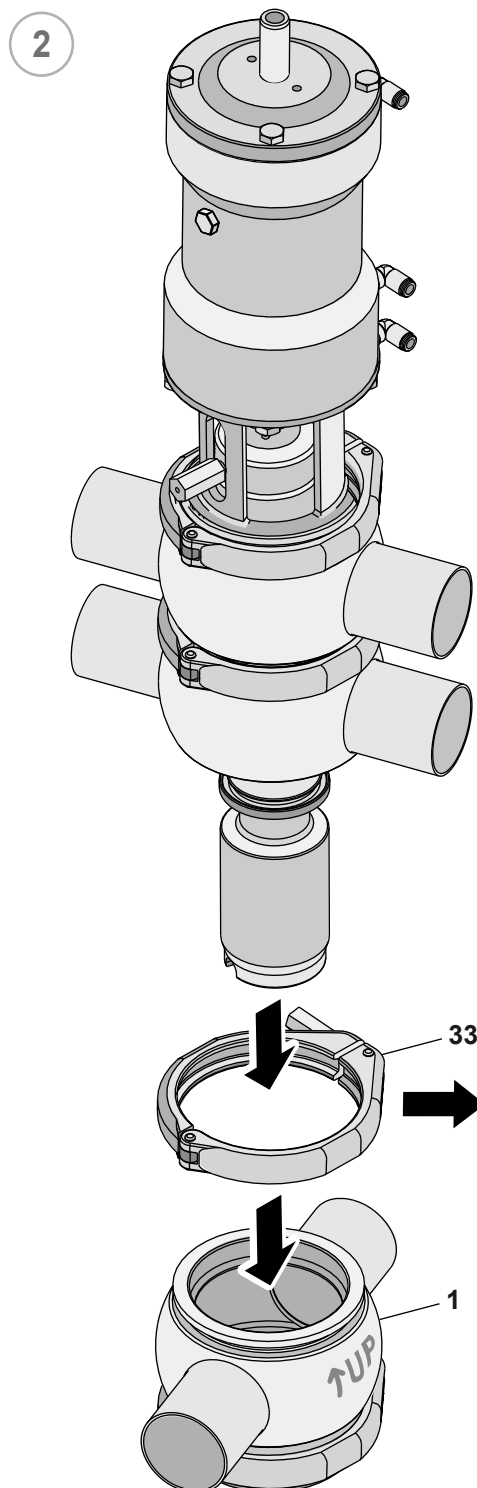
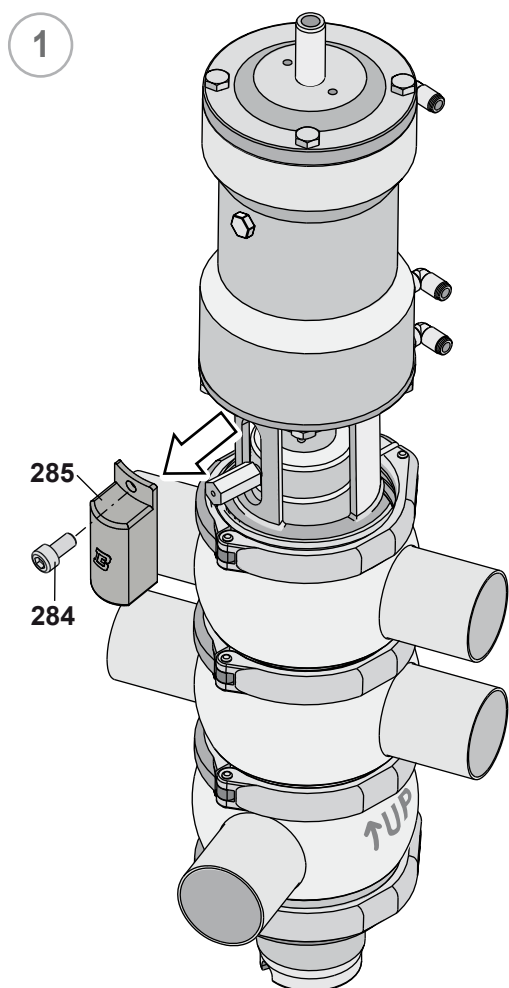
00* = component present only on the B925B valve.

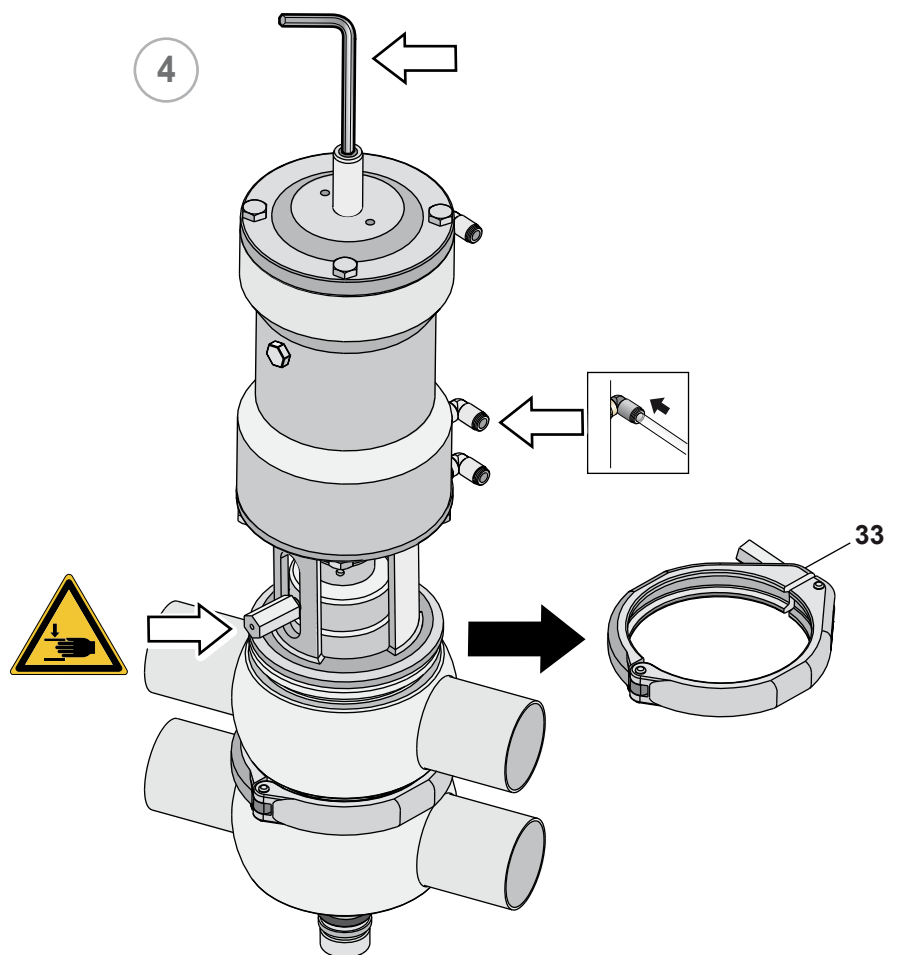
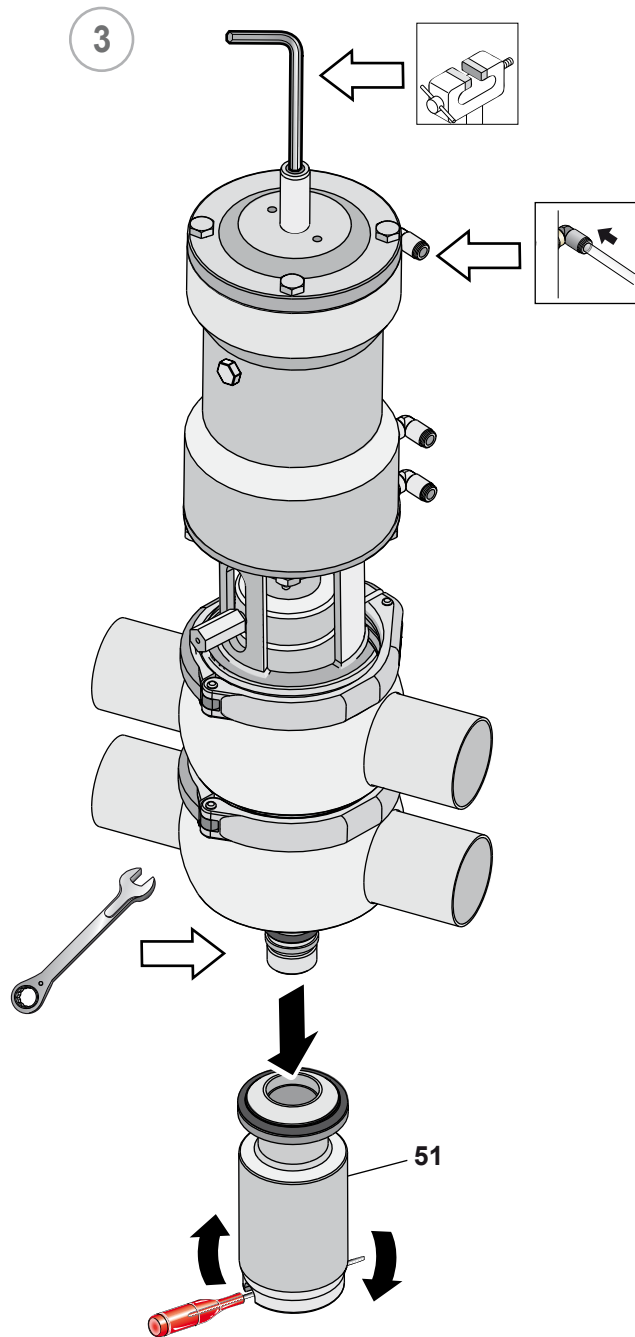
00** = component present only on the B925 valve.

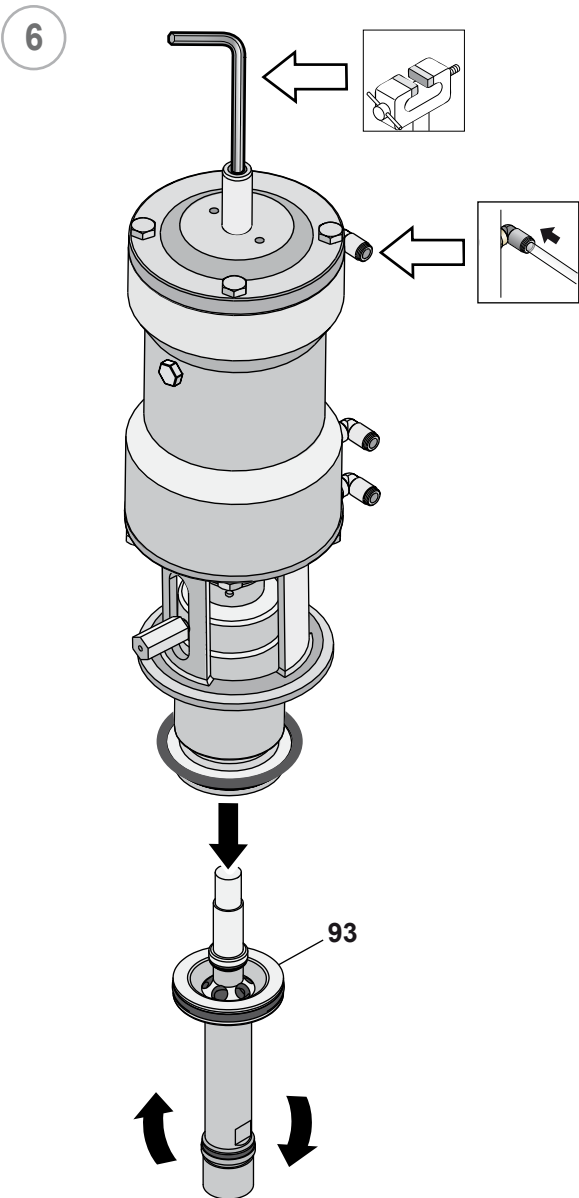
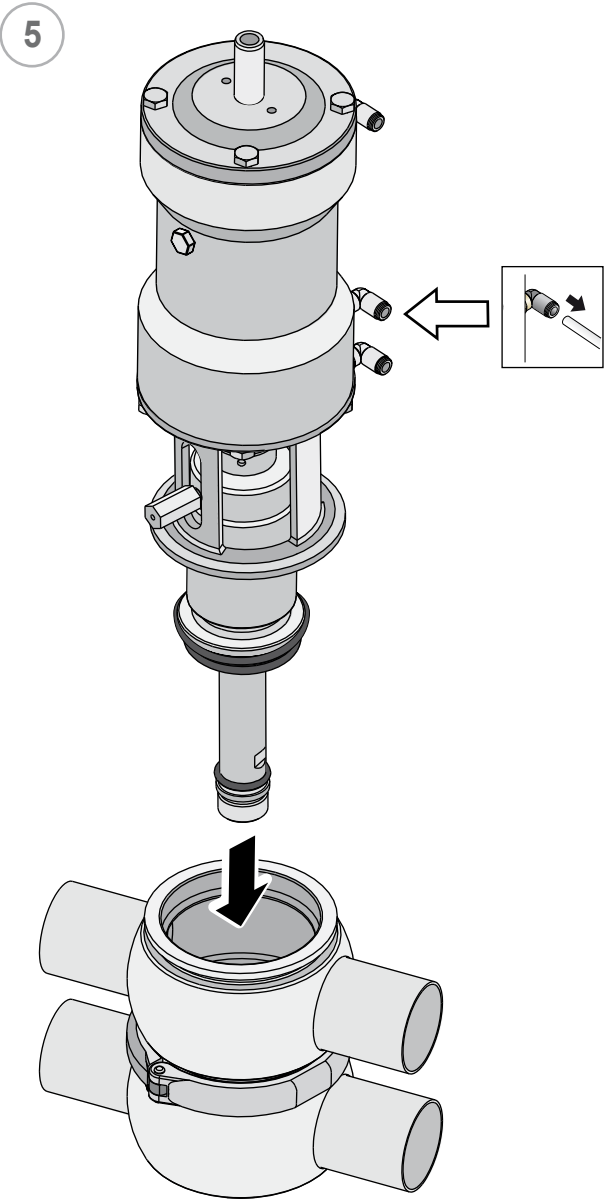
00*** = component present only on the DN25 - 40 and DN65 valve.

[] = component present in the spring block (supplied assembled)

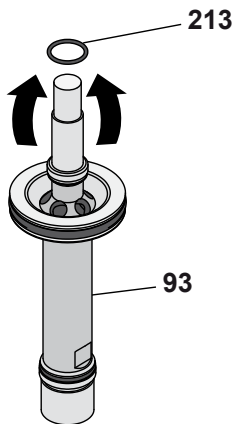
16 Disassembly of the B925 - B925B Diverter



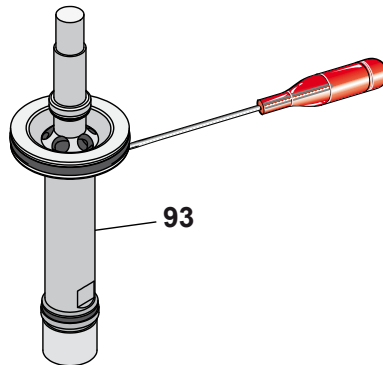




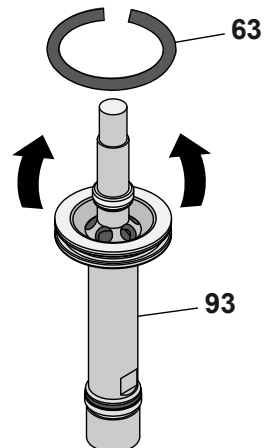
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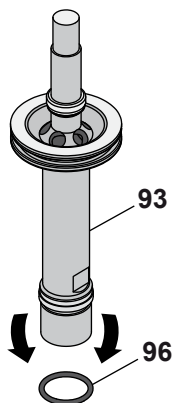
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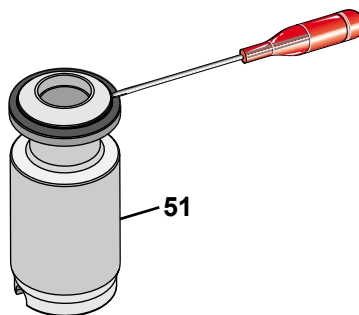
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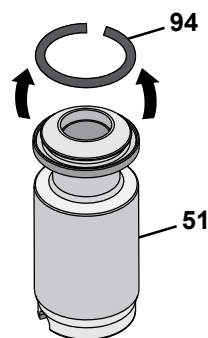
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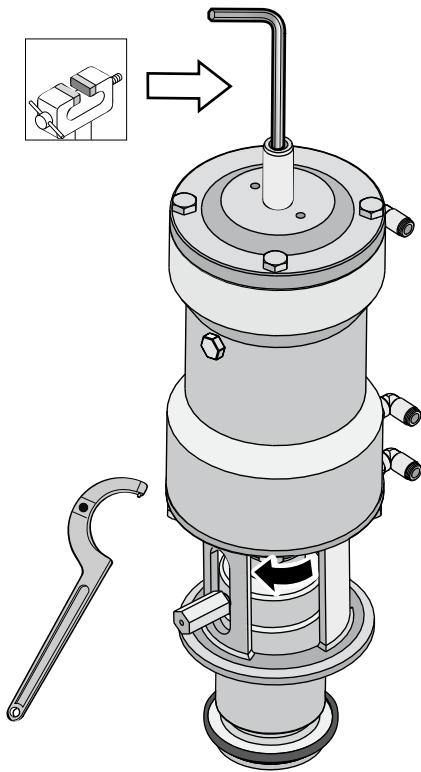
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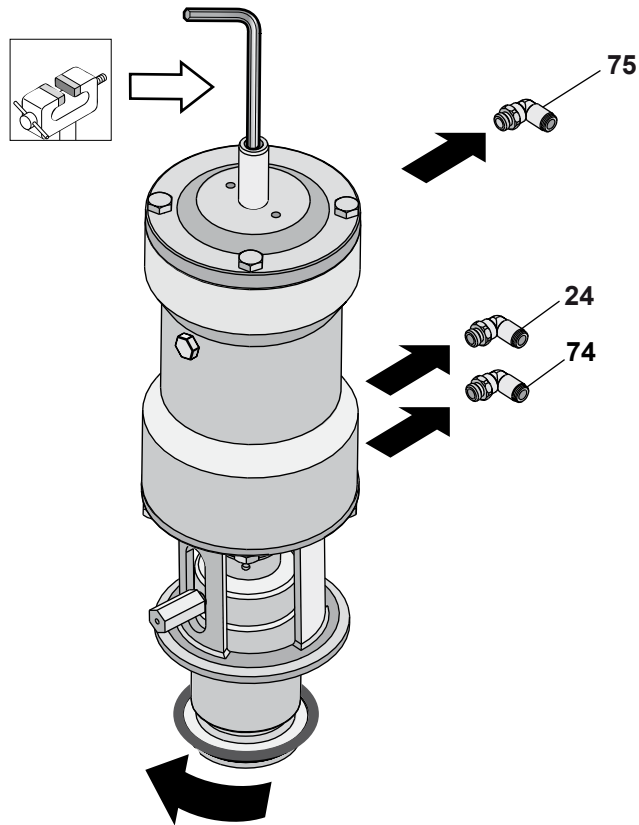
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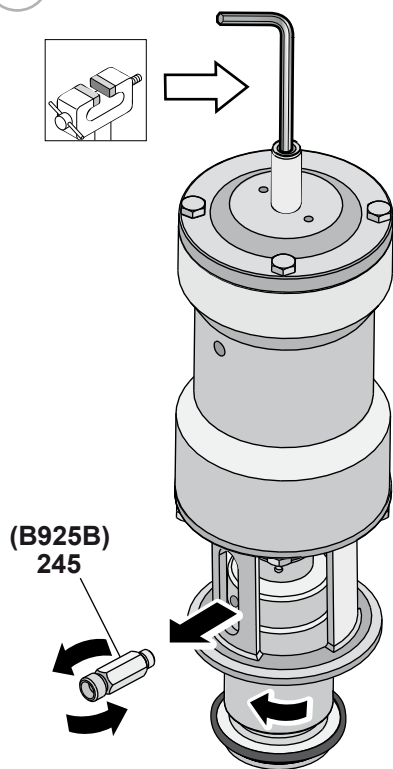
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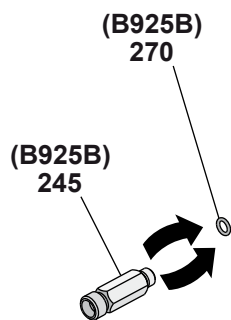
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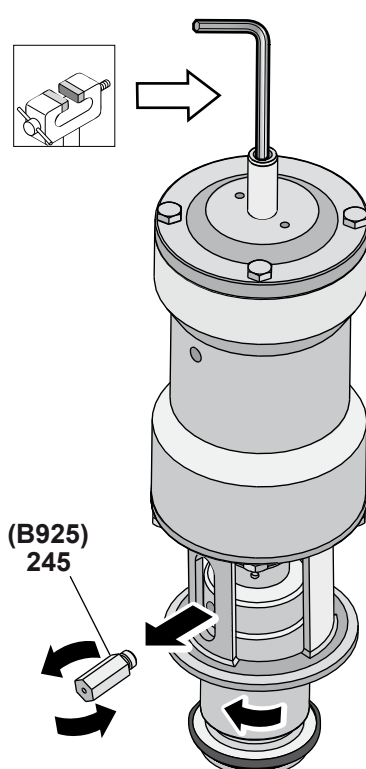
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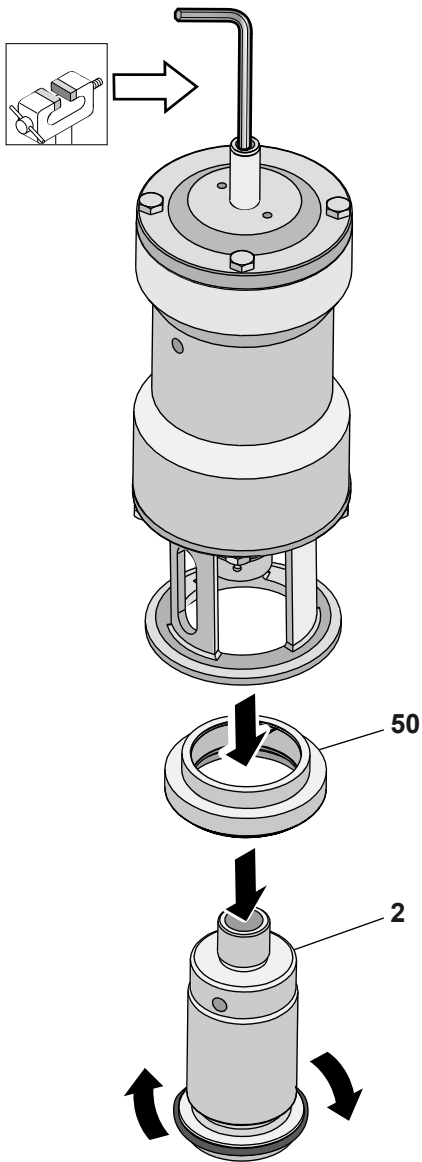
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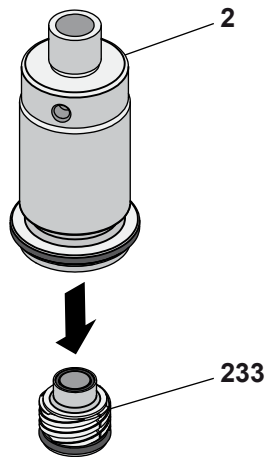
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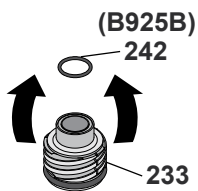
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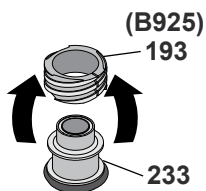
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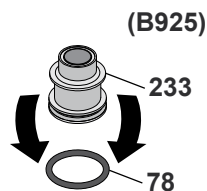
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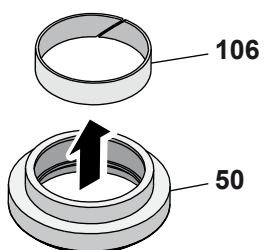
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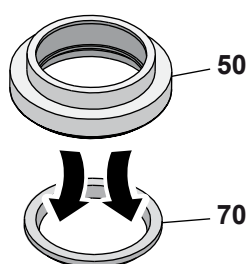
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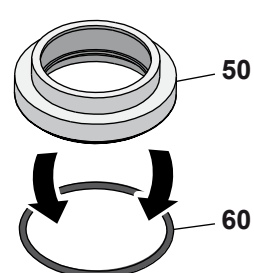
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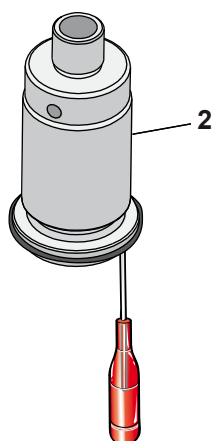
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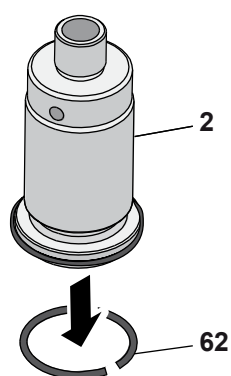
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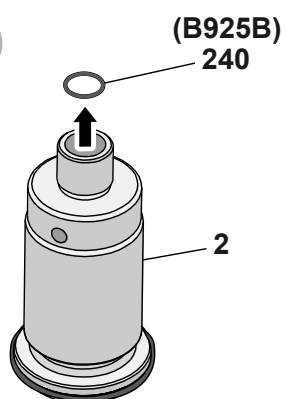
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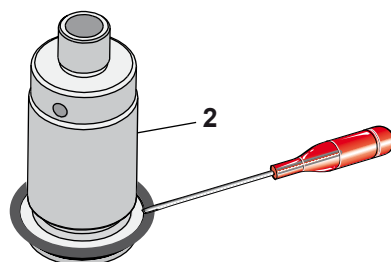
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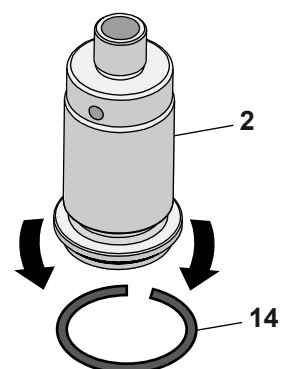
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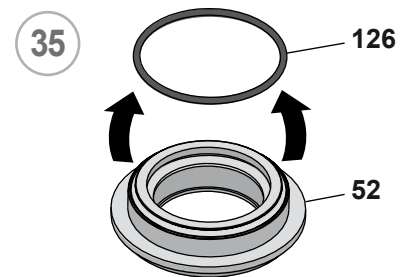
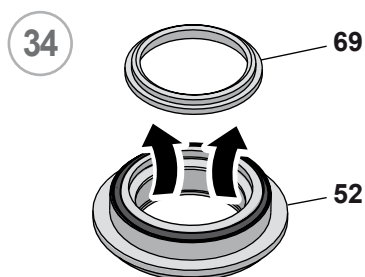
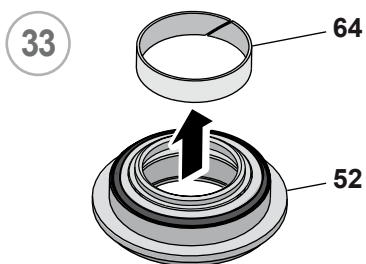
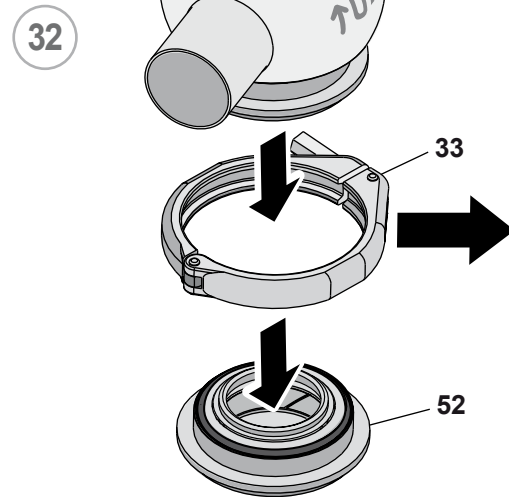
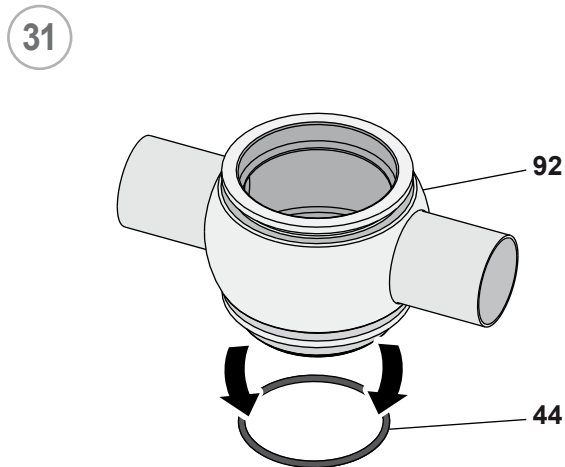
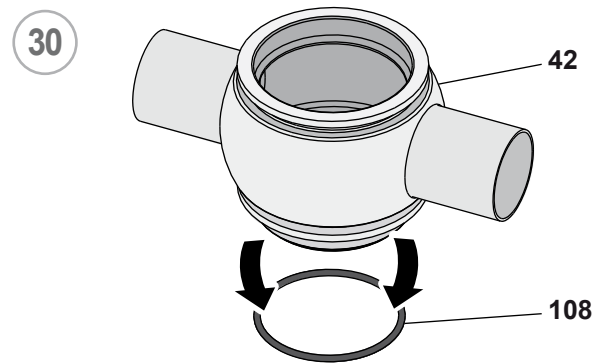
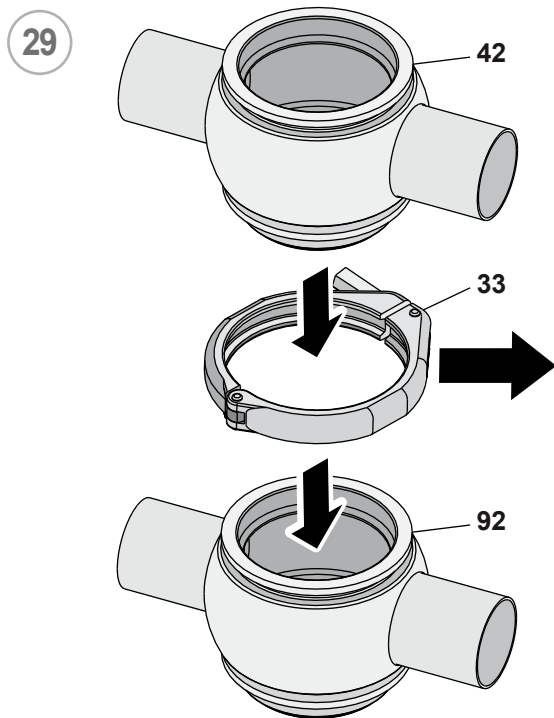


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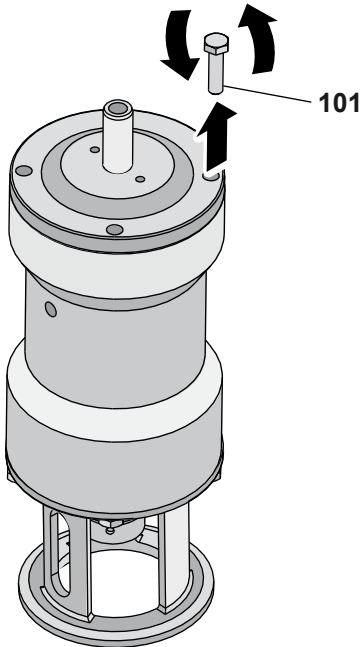
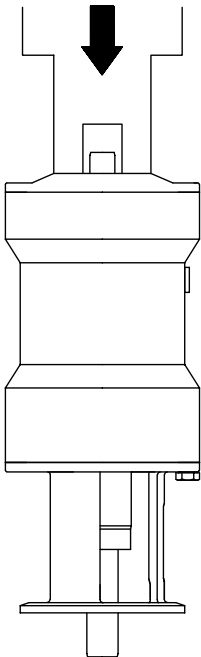
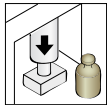


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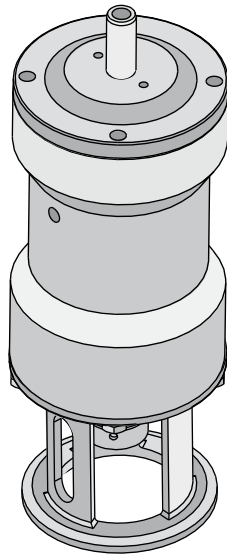
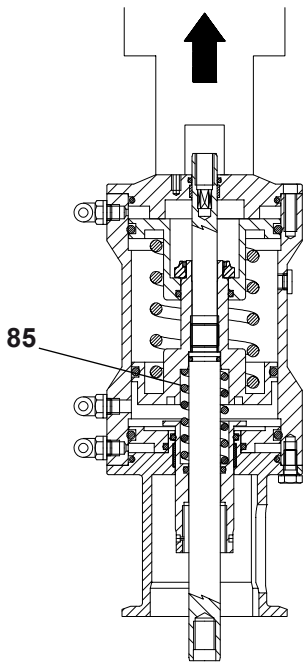
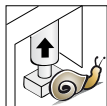


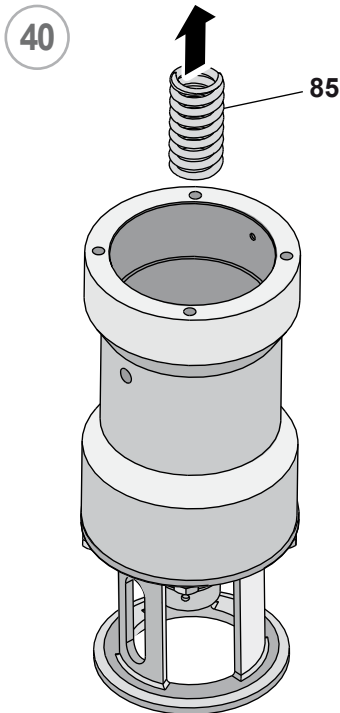
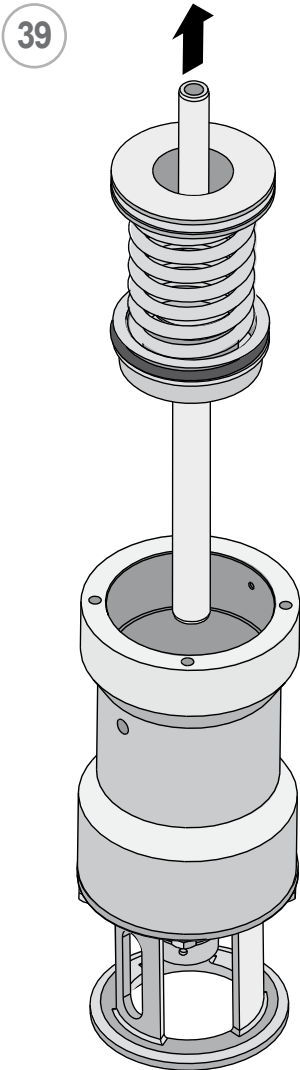
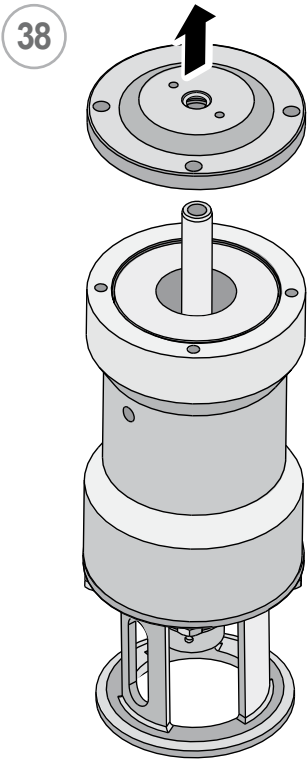


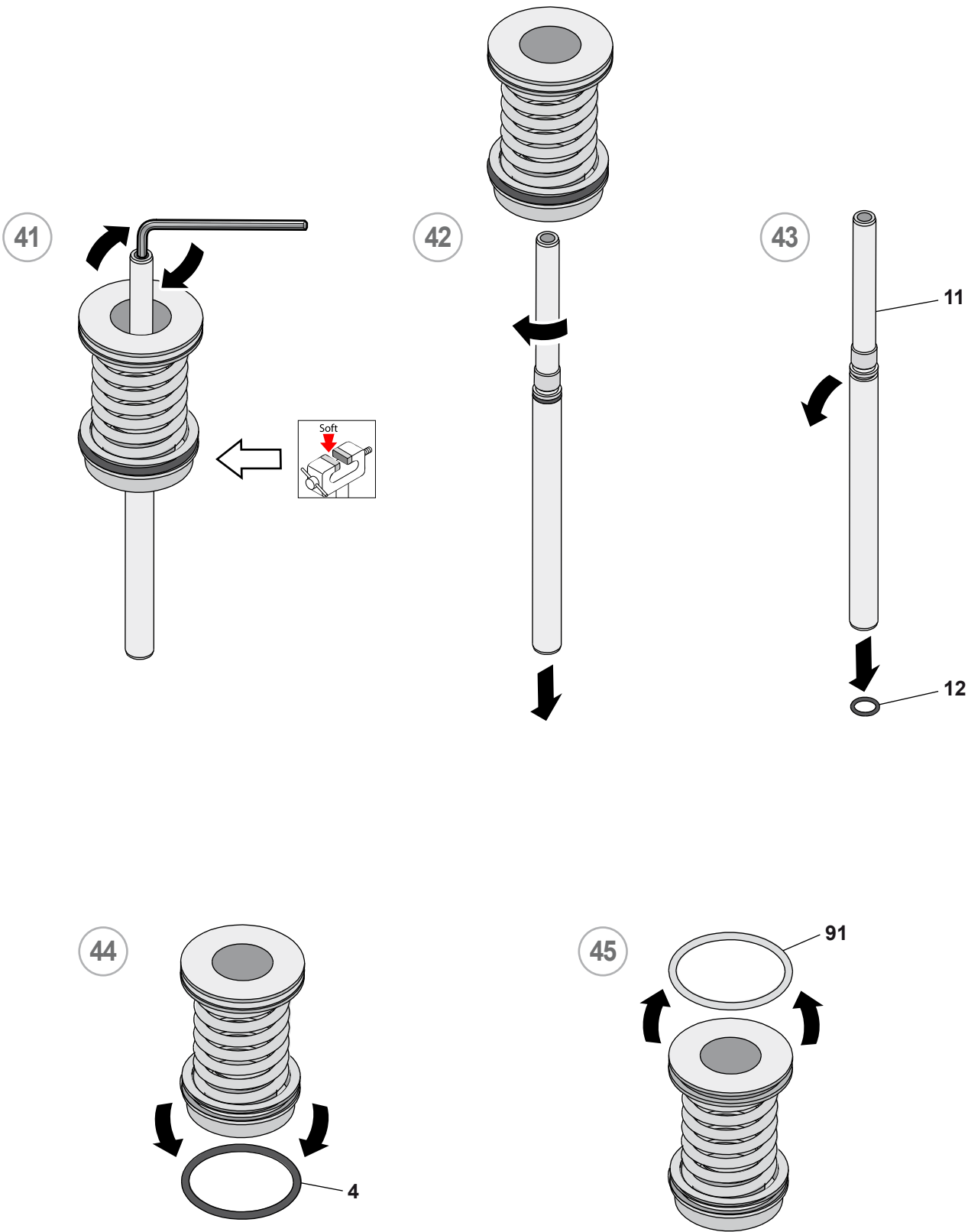
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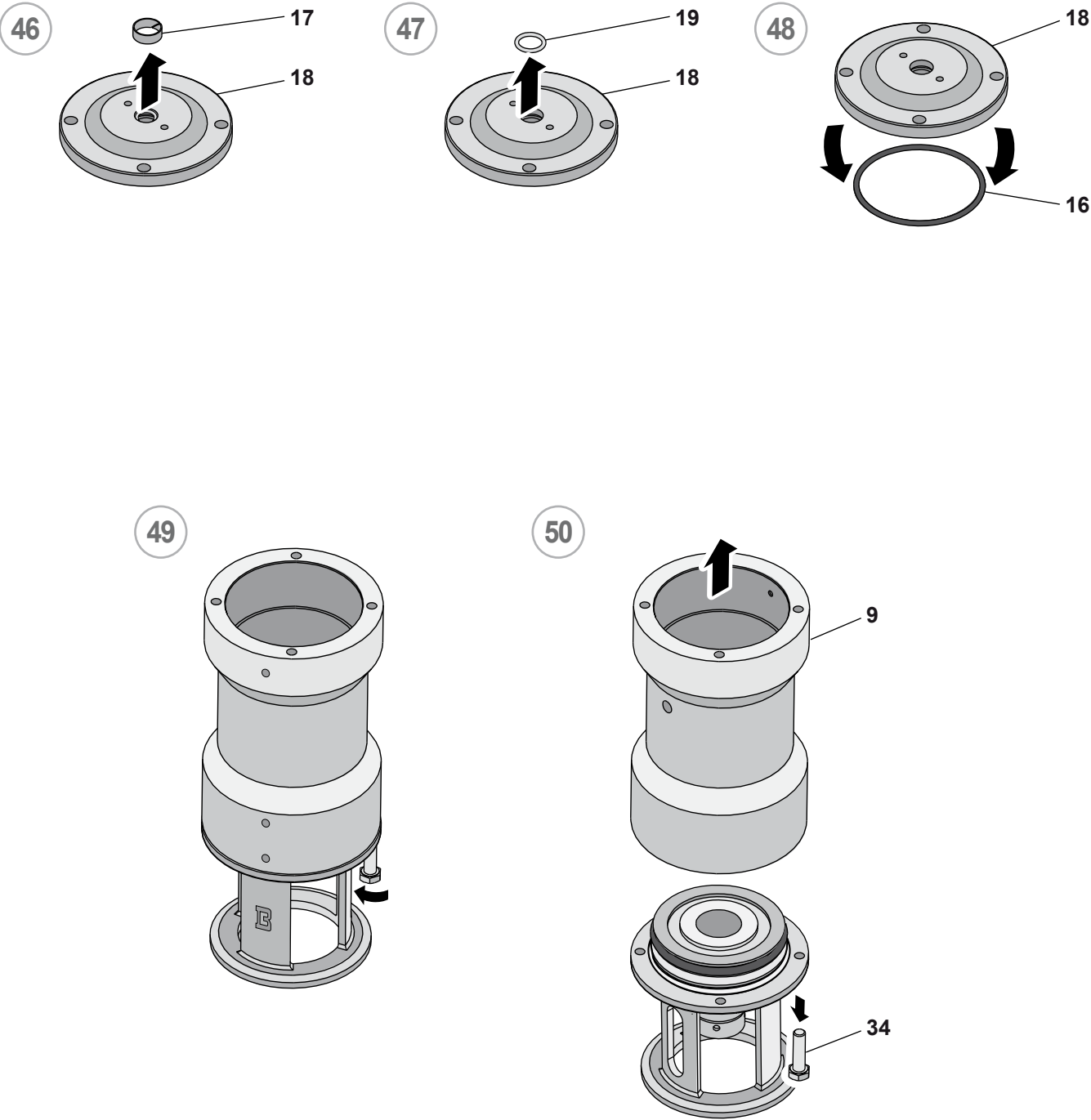


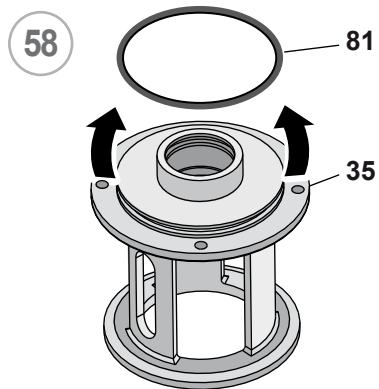
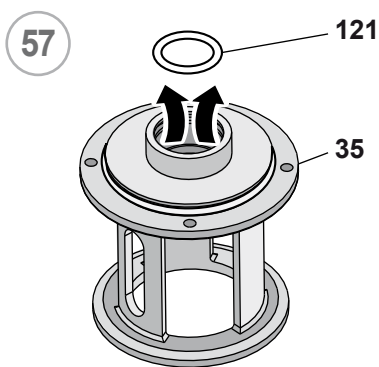
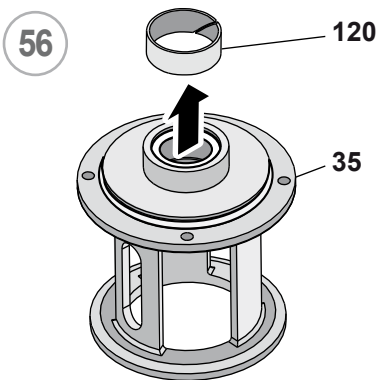
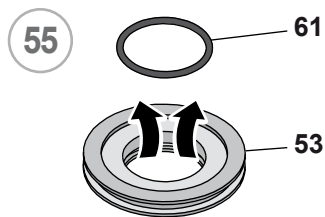
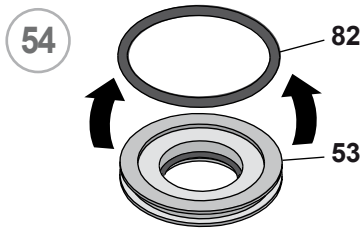
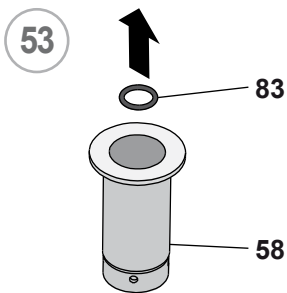
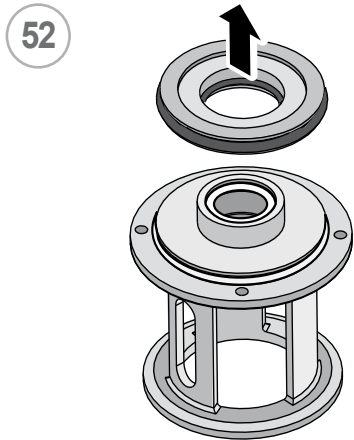
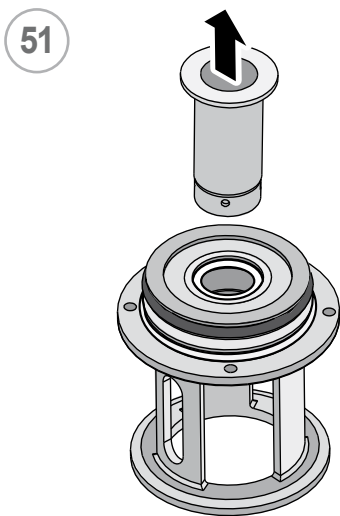
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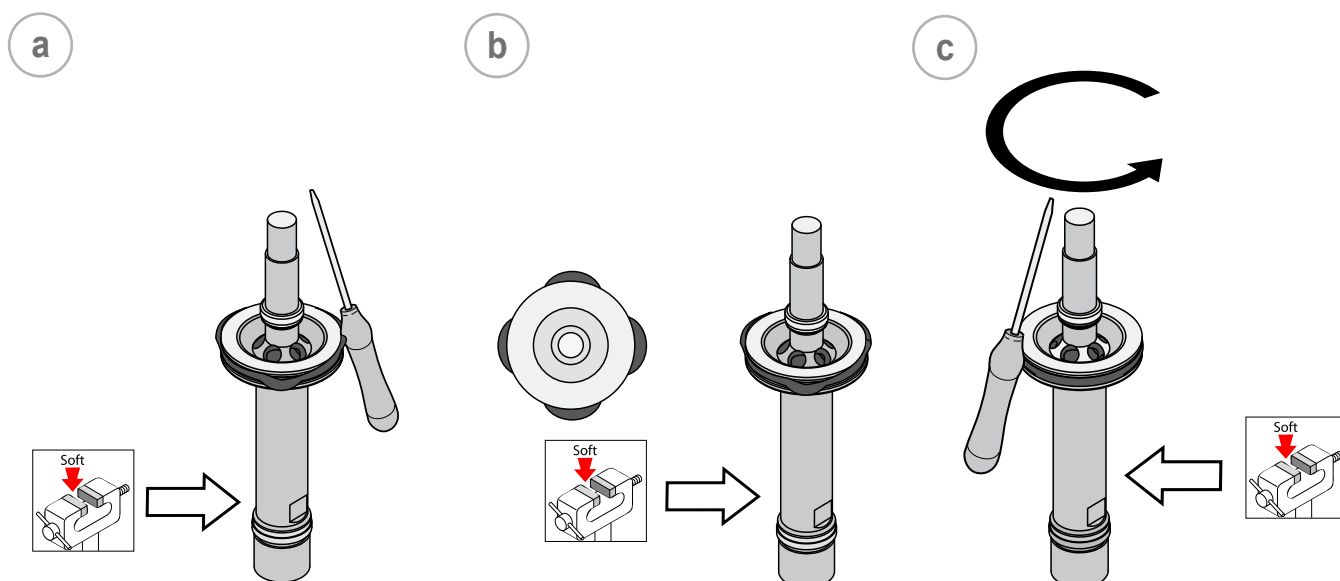
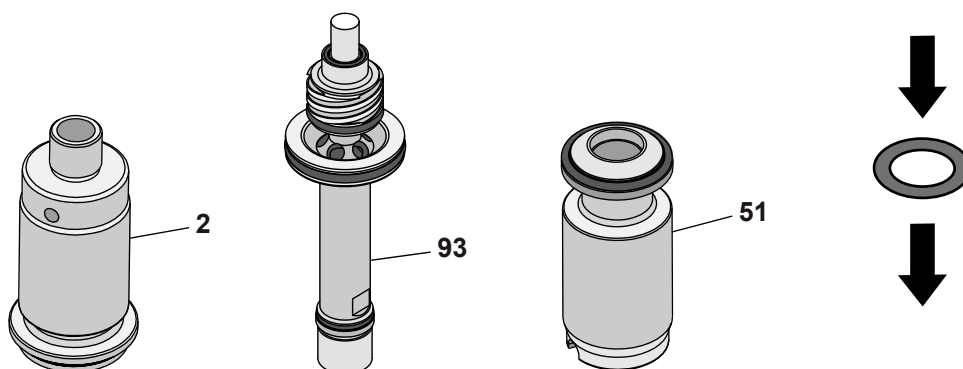
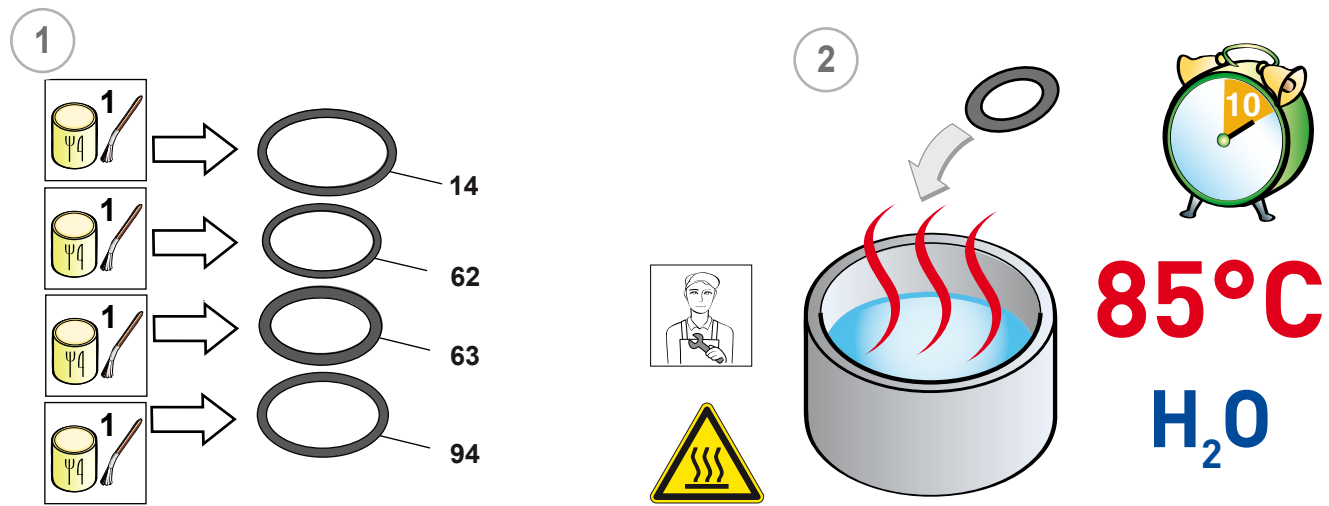


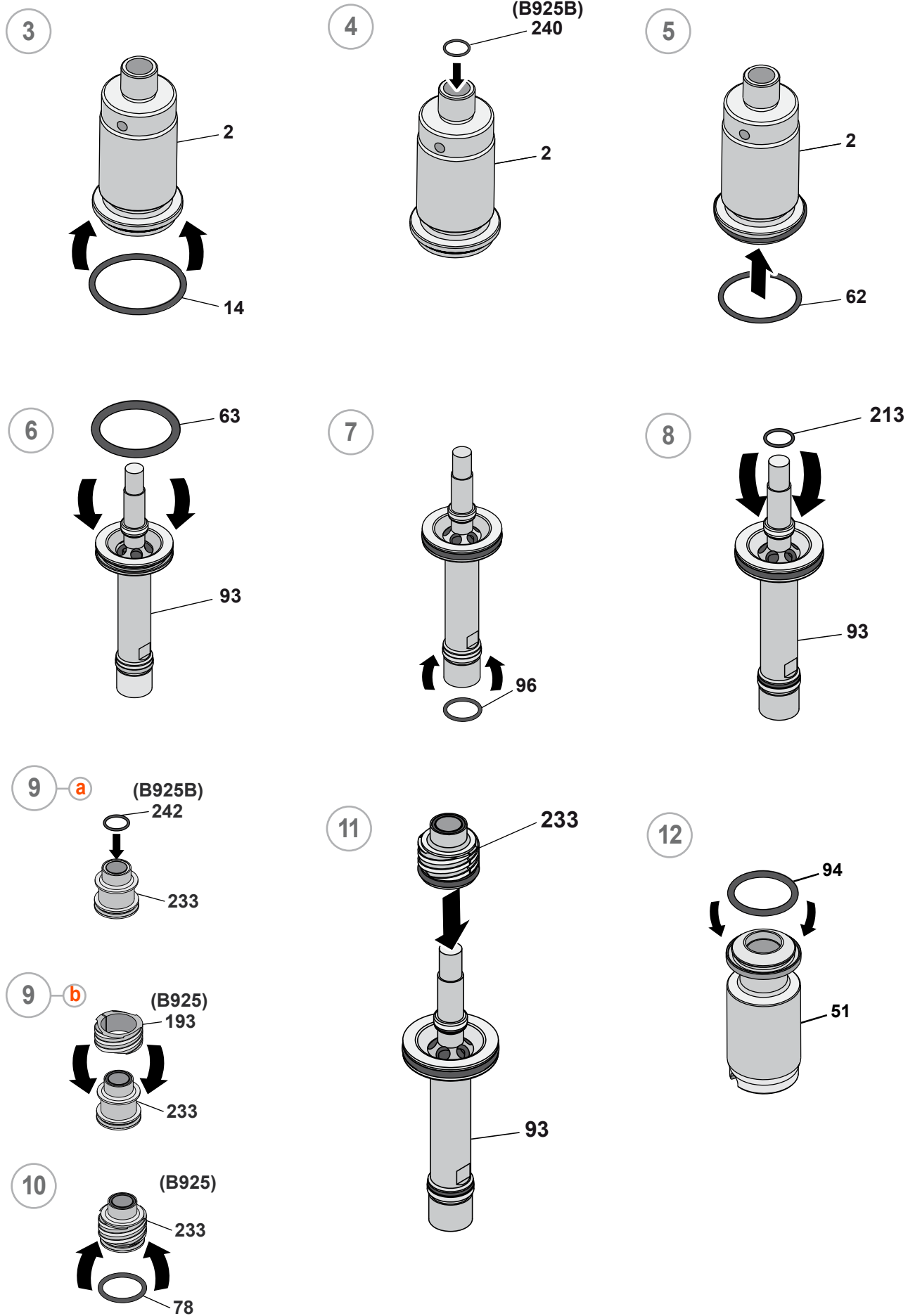


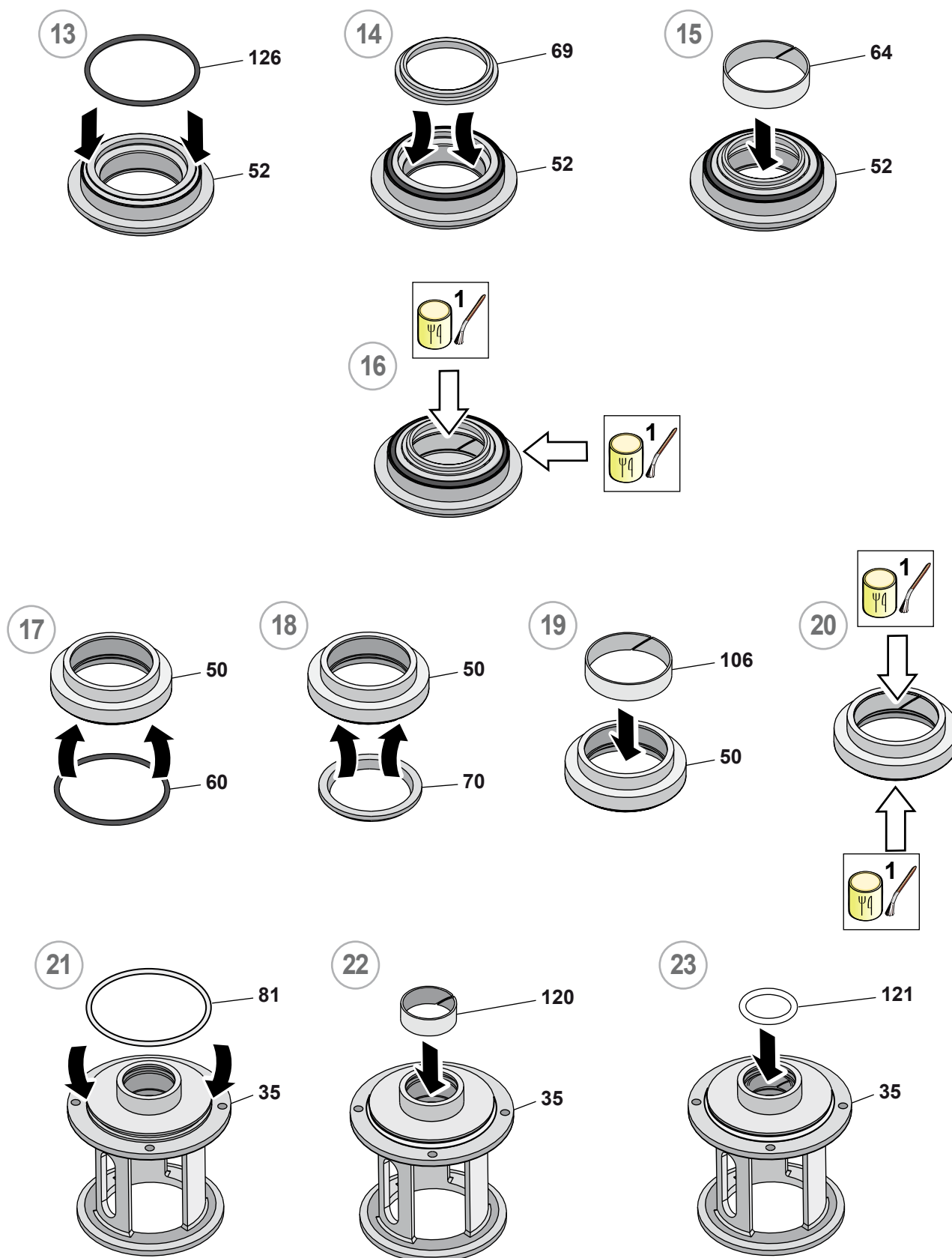


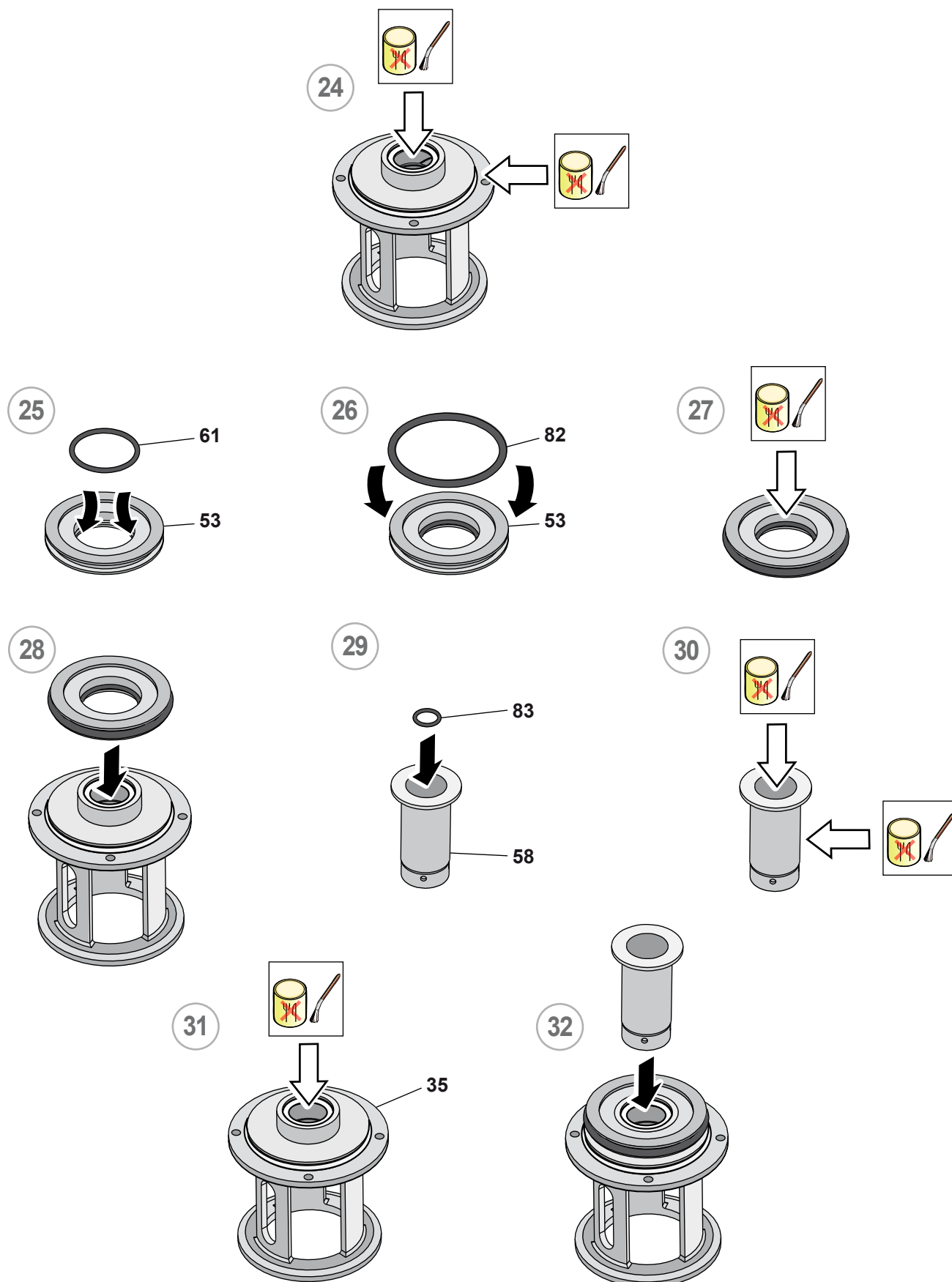


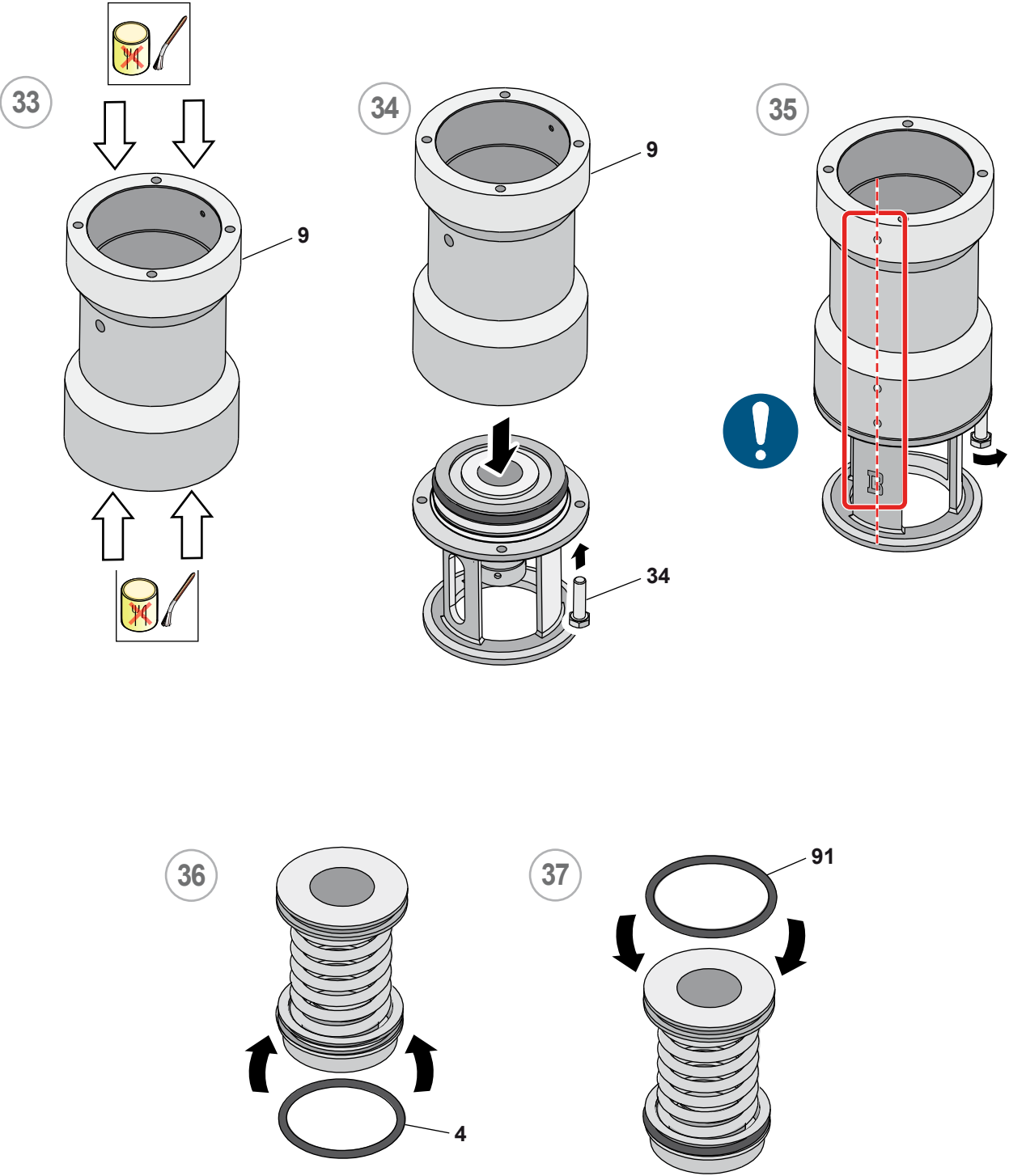
17 Assembly of the B925 - B925B Diverter

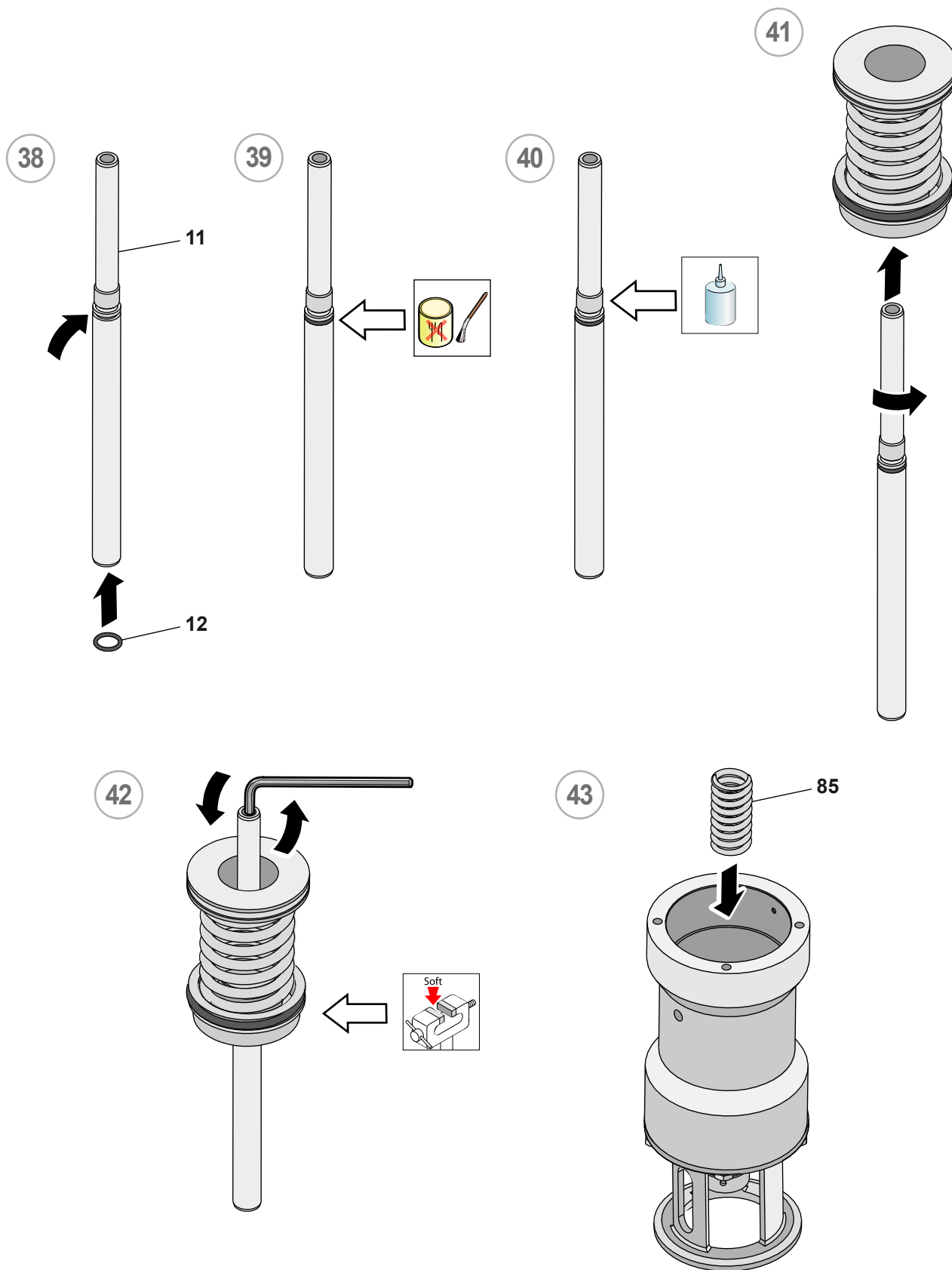


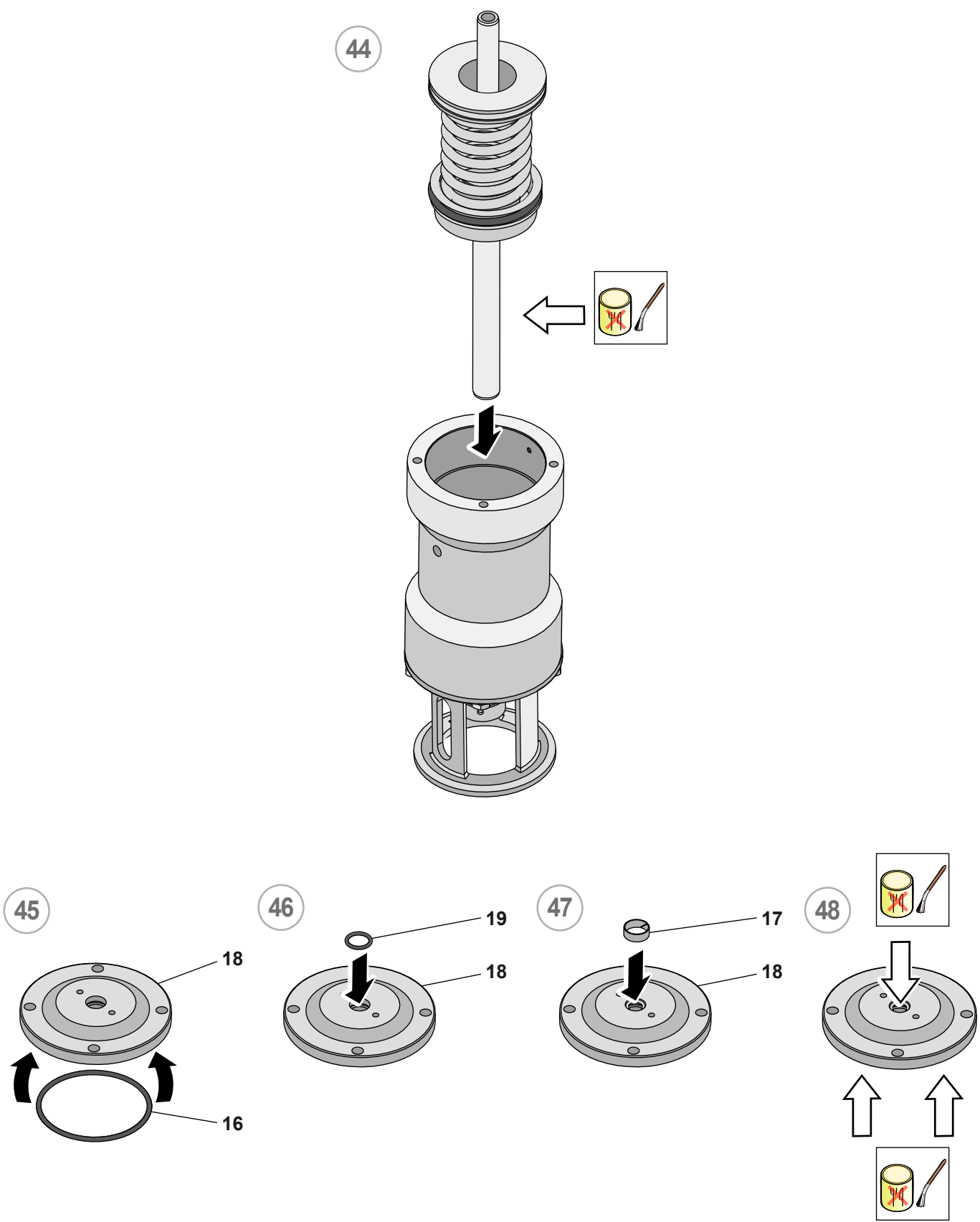


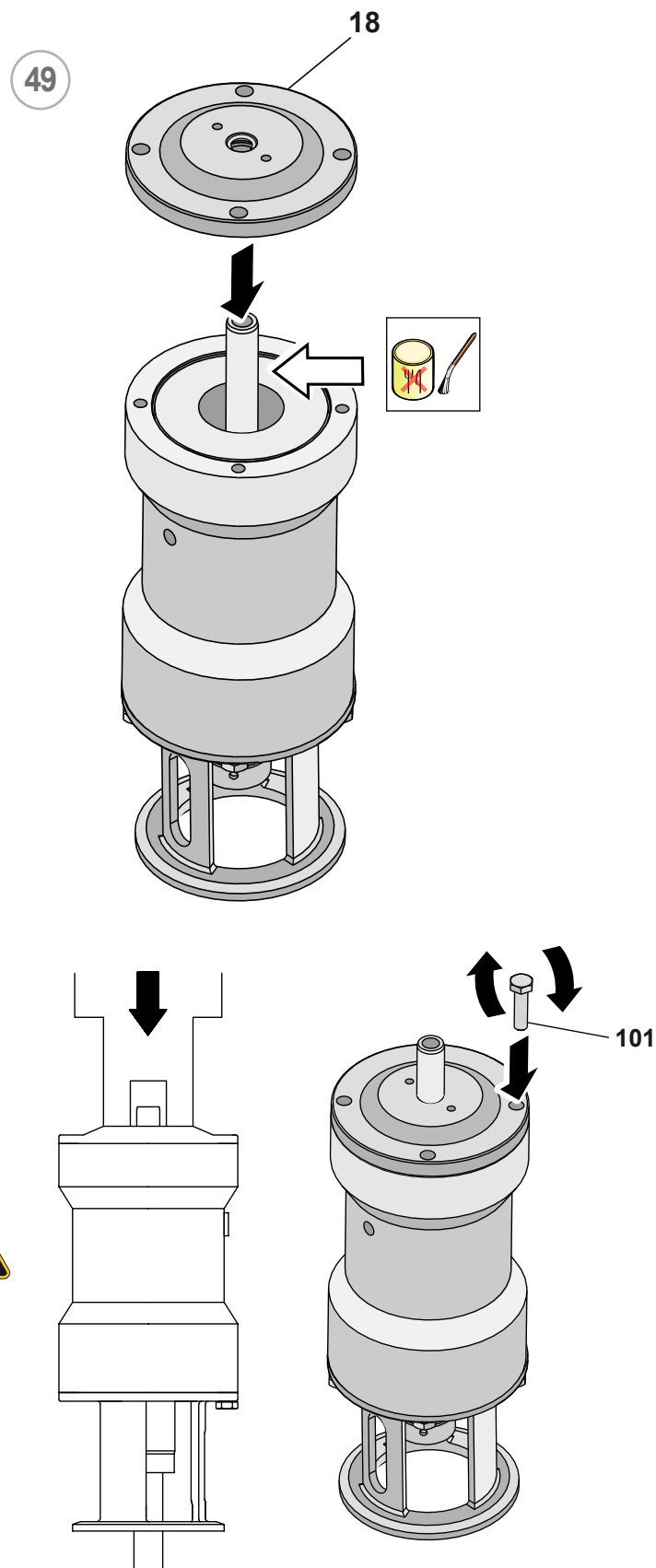


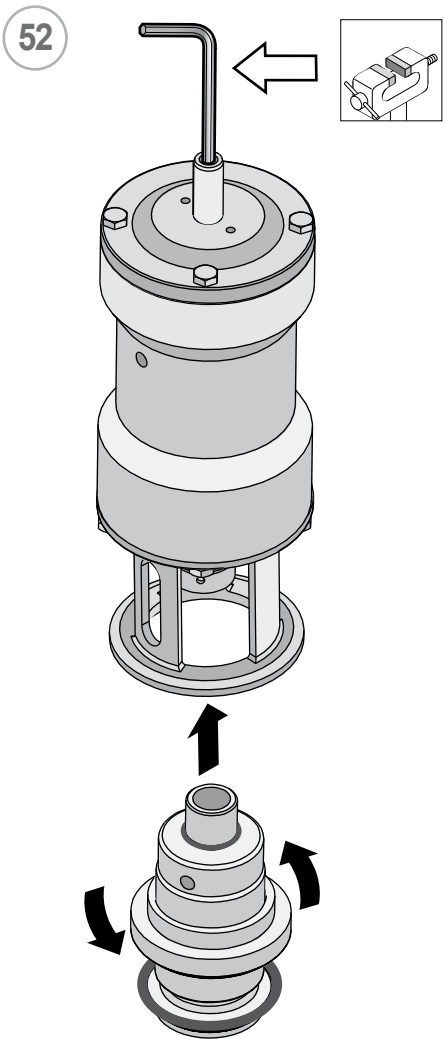
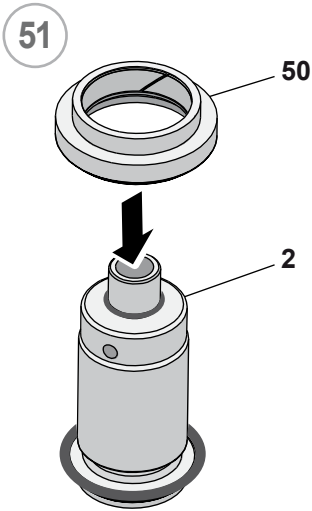


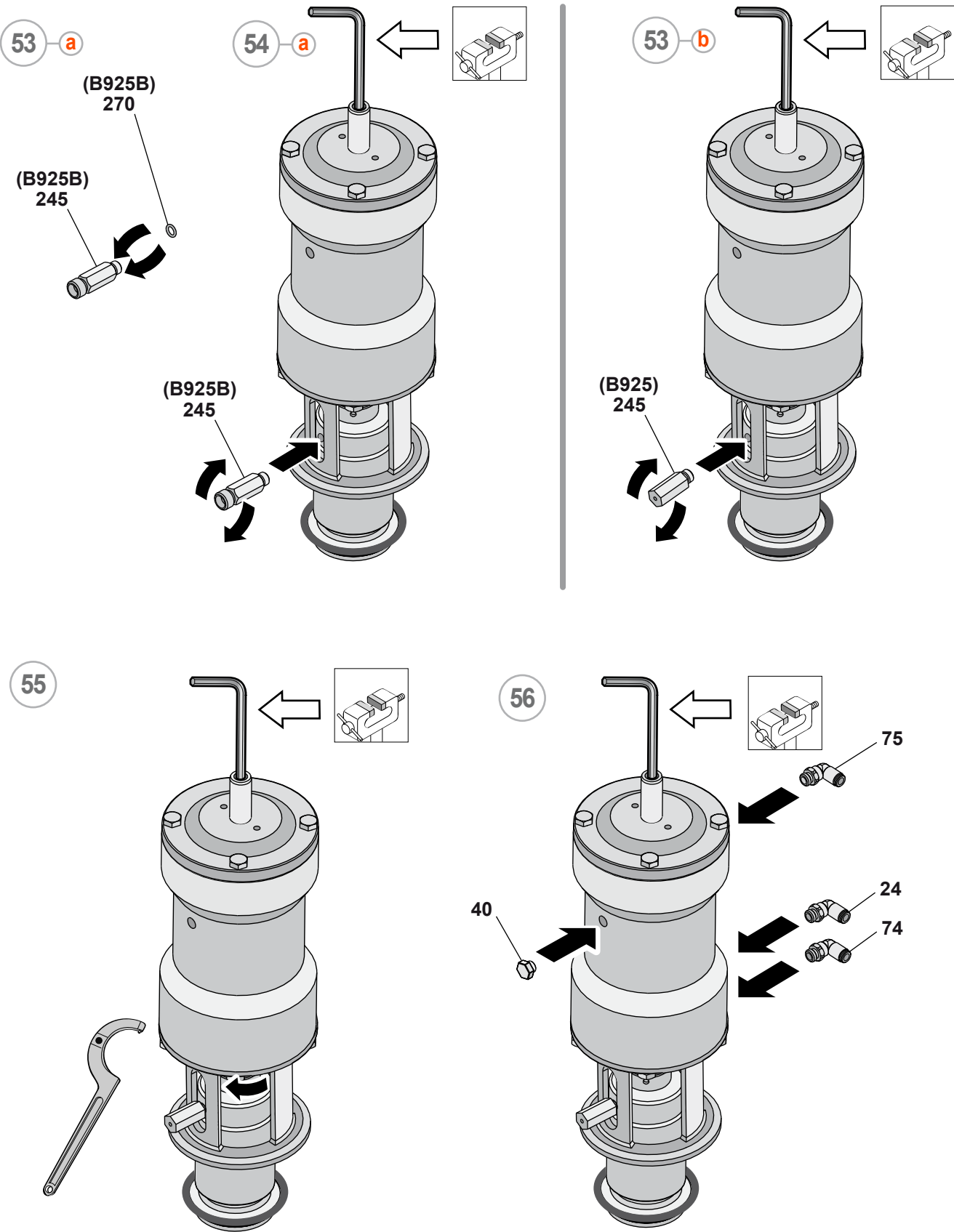


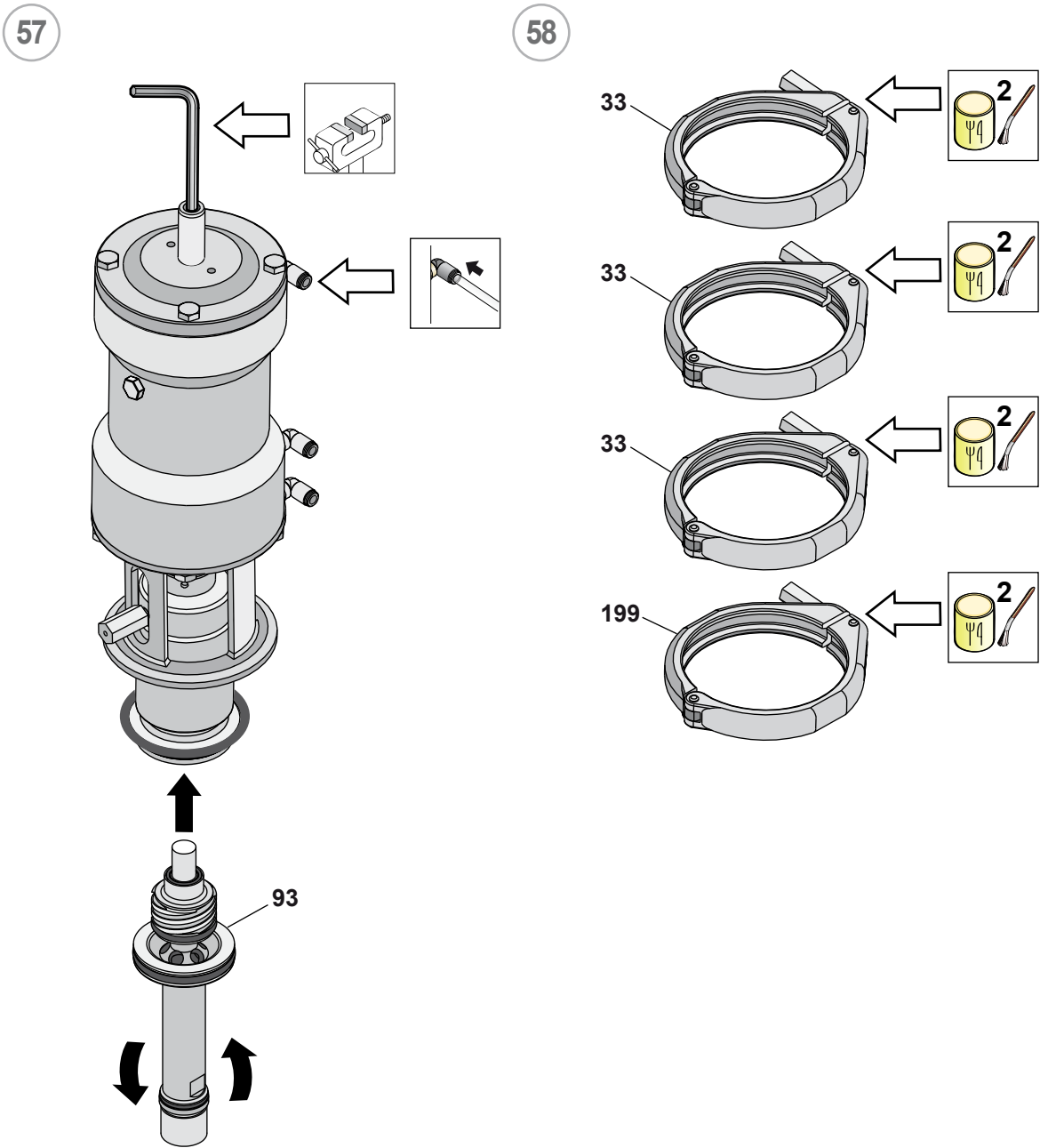


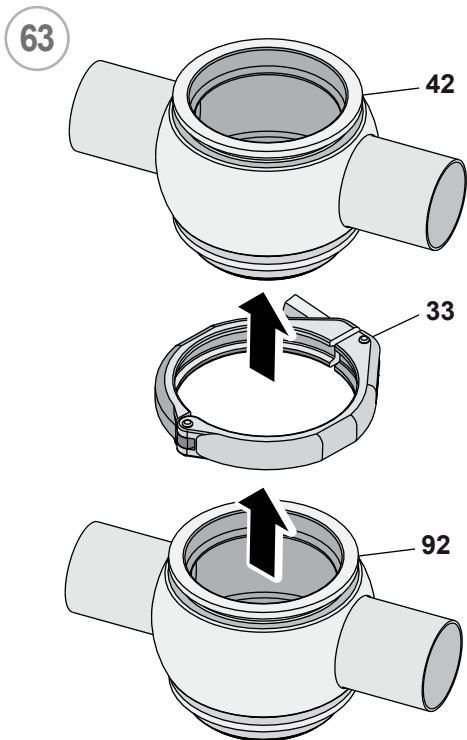
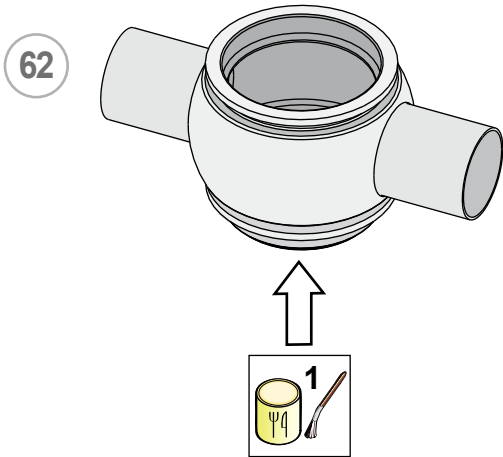
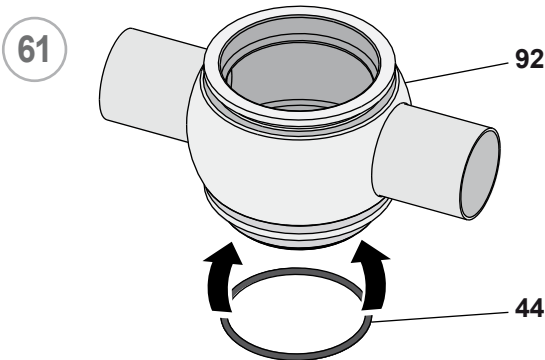
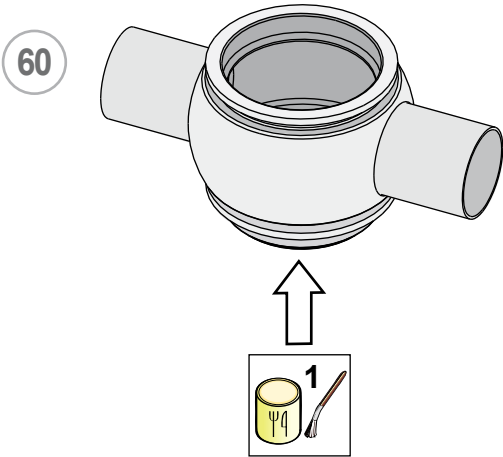
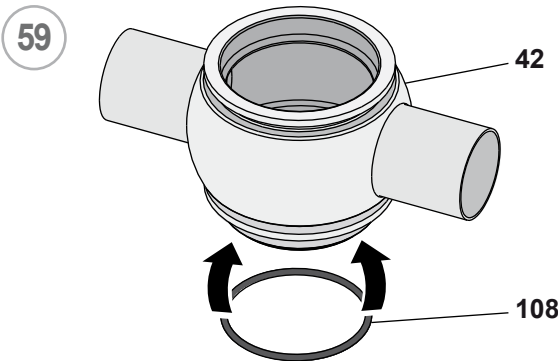


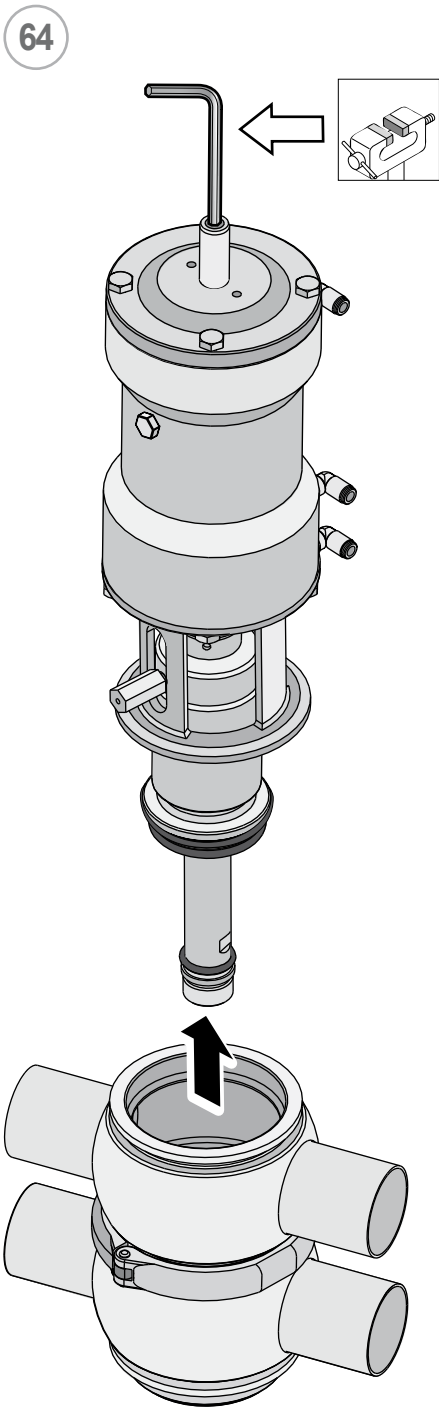


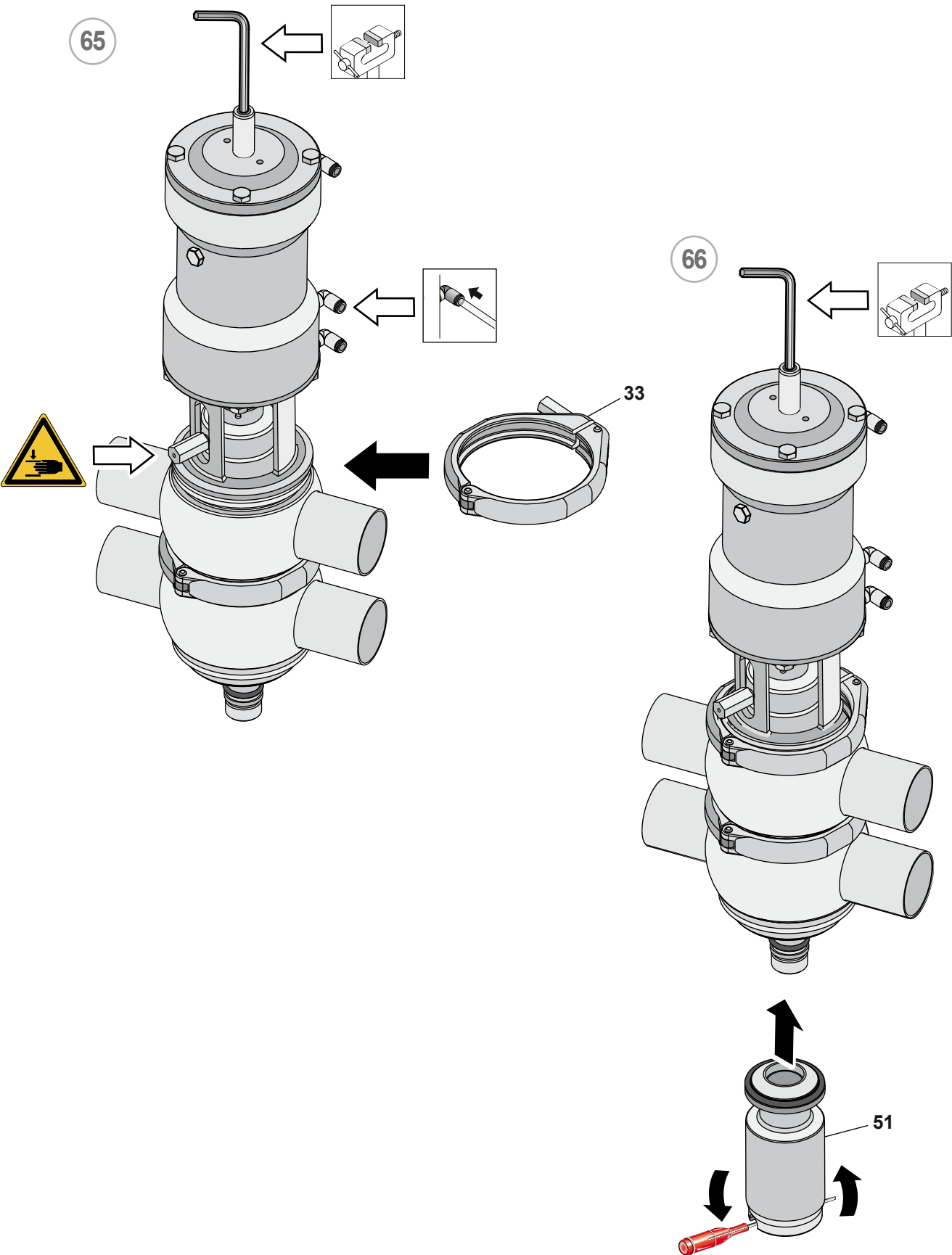


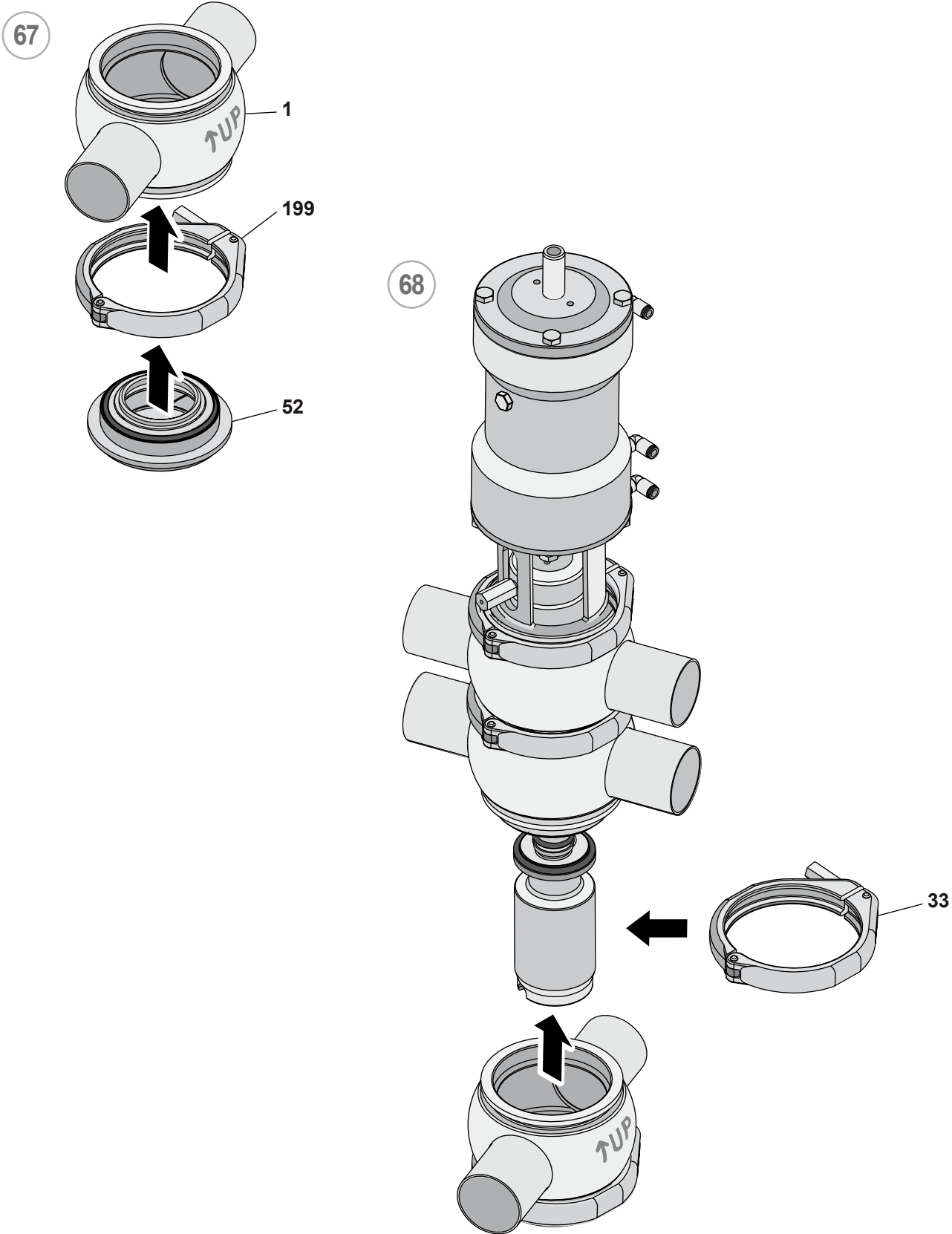


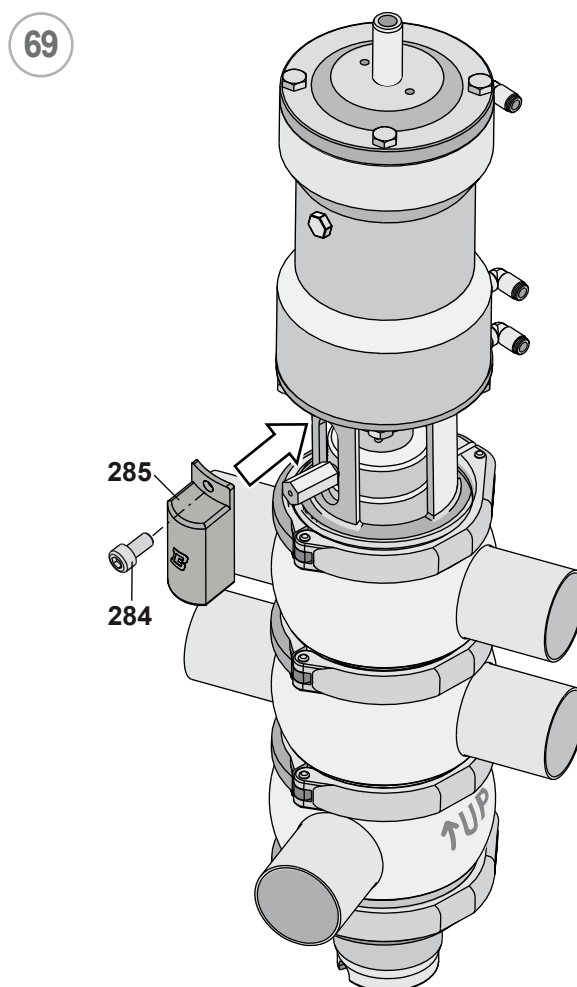












18 Annexes



GB - EC Declaration of
conformity - A3-P-PRG-GB (2)

EC DECLARATION OF CONFORMITY OF THE MACHINERY

(EC) 2006/42, Annex. II, p. 1 A

BARDIANI VALVOLE S.p.A.

Via G. di Vittorio 50/52 – 43045 Fornovo di Taro (Pr) – Italy

Declares

under its own responsibility that the machine:

Type:	PNEUMATIC VALVES
Model:	
Serial number:	
Function:	Fluid handling
Year of construction:	2016
Reference	

complies with all relevant provisions of the following EC directives:

(EC) 2006/42 MACHINERY

and also comply with the following EC Directives and Regulations:

(EU) 2014/30 ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (EMC)

and the following harmonized standards, rules and / or technical specifications applied:

EN ISO 12100:2010

REGULATION (EC) 1935/2004 and subsequent amendments and additions with regard to steel and elastomers in contact with the product

REGULATION (EC) 10/2011 and subsequent amendments and additions with regard to PTFE in contact with the product

Fornovo di Taro

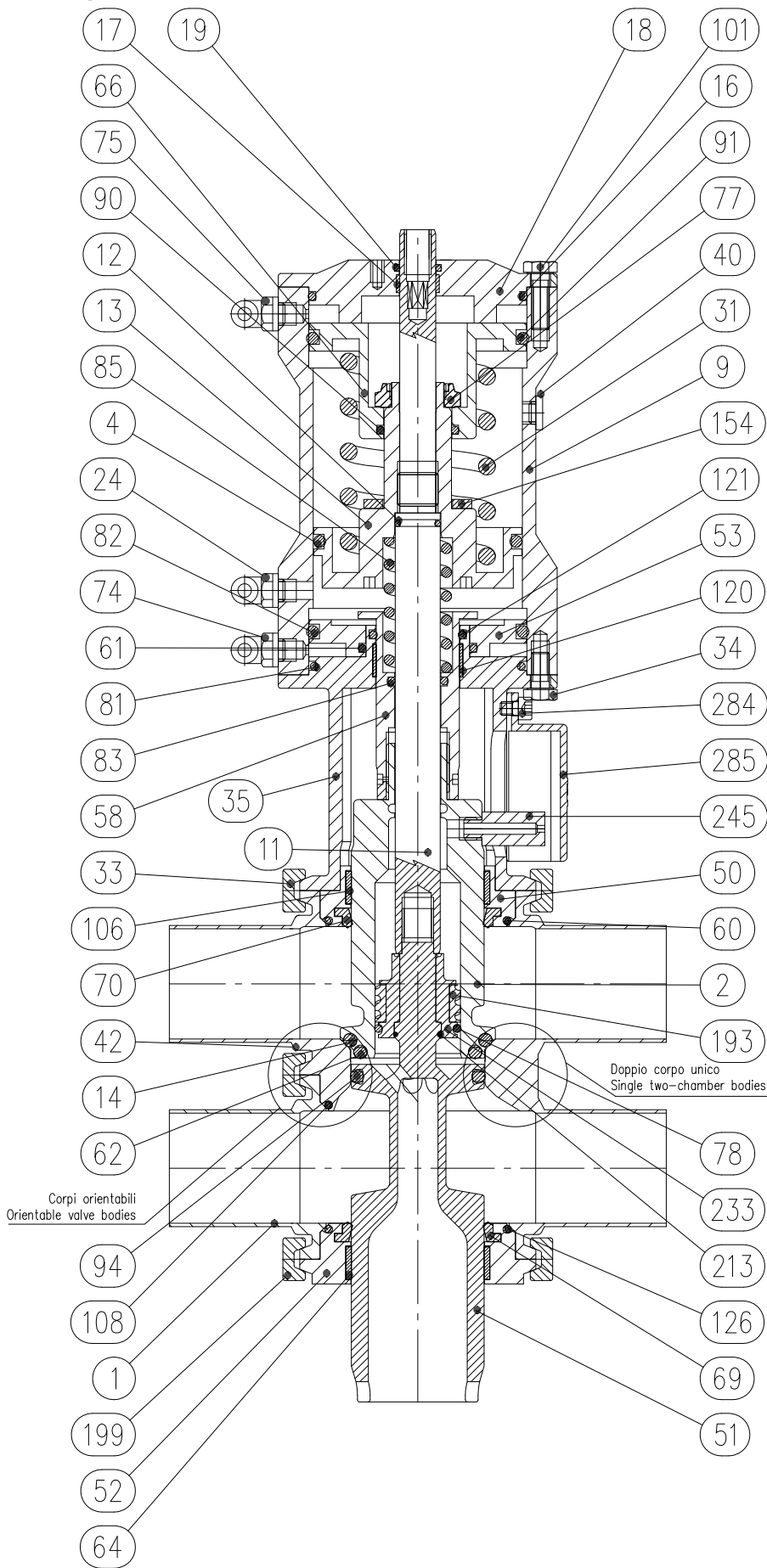
28/04/2016

Emanuela Bardiani
Legal representative

A3-P-PRG-GB Ed. 1. Rev. 0

BARDIANI VALVOLE S.p.A.
Via G. di Vittorio 50/52
43045 Fornovo di Taro (Pr)

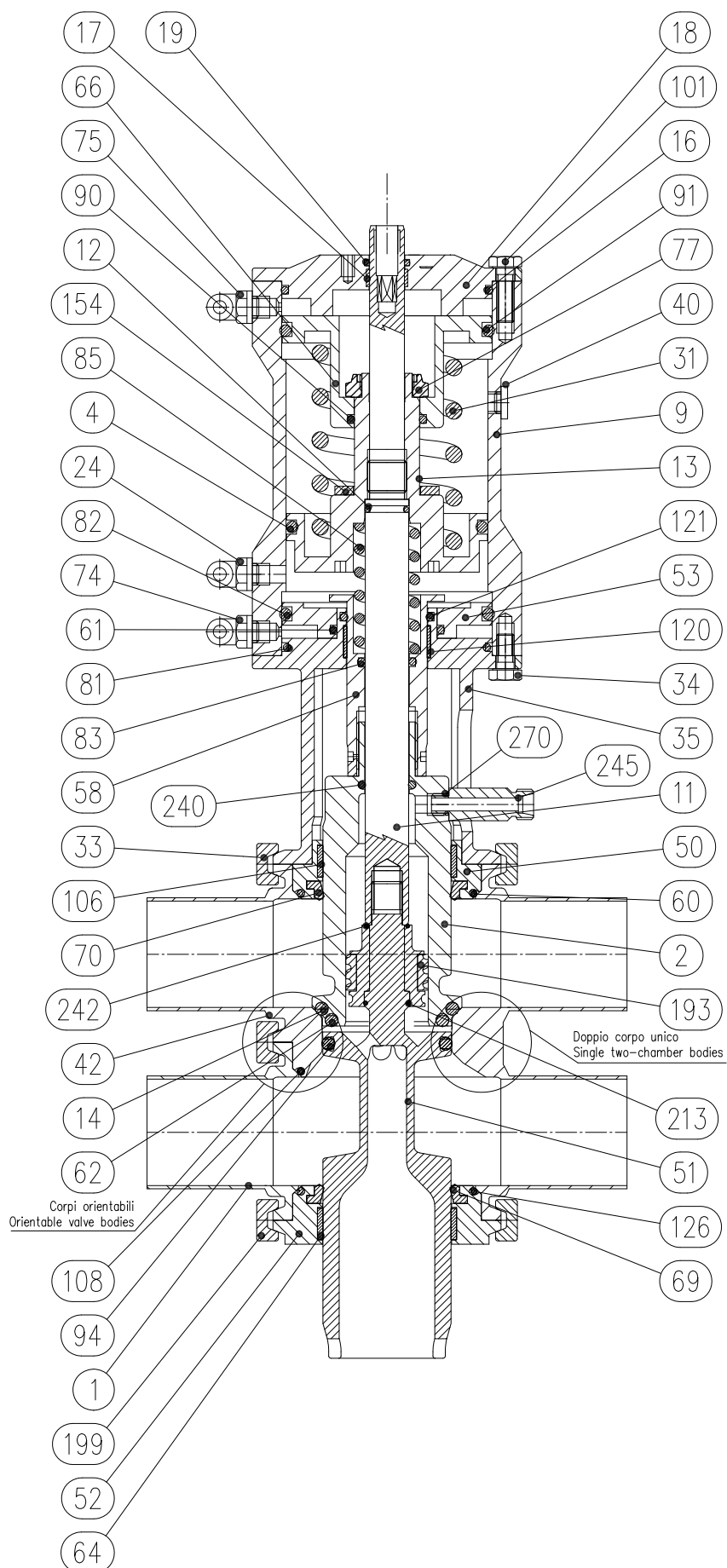
192D diagram B925



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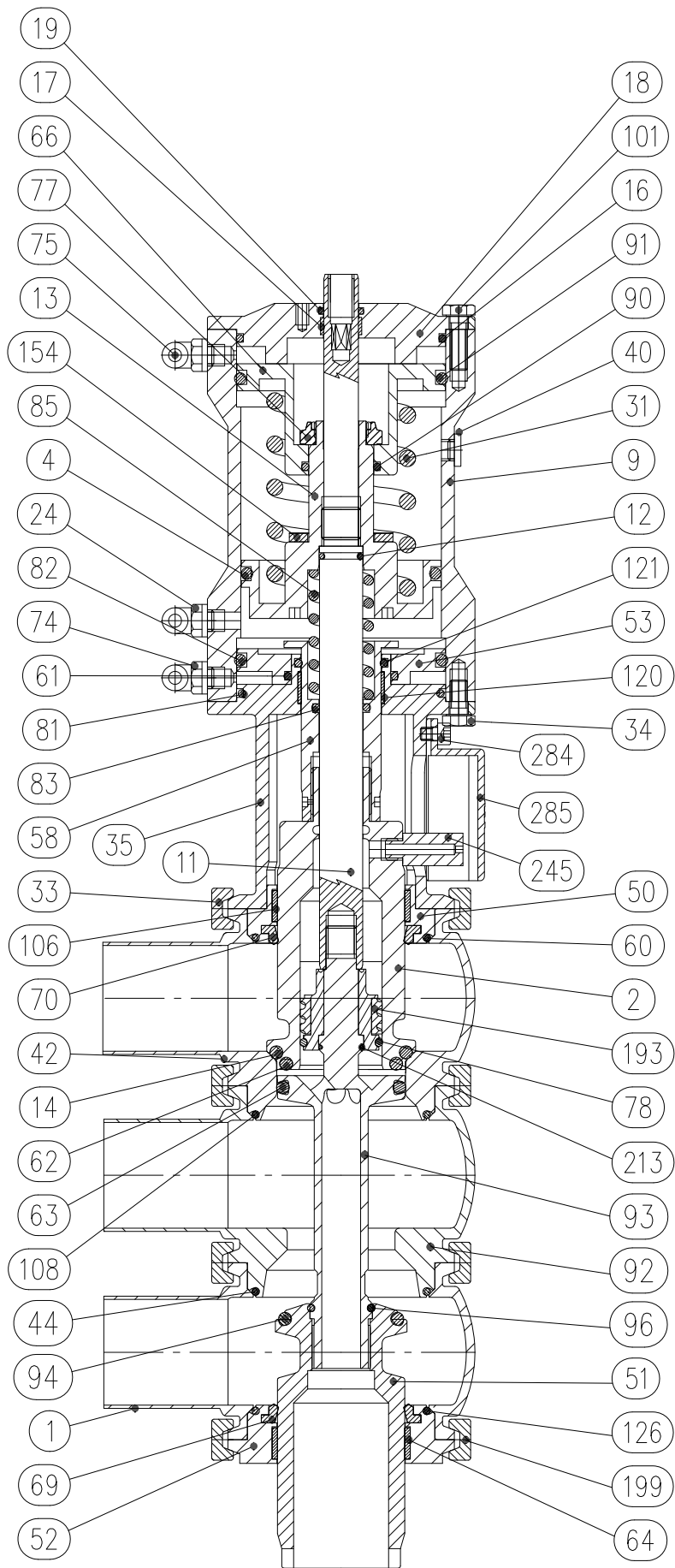


20 2D diagram B925B

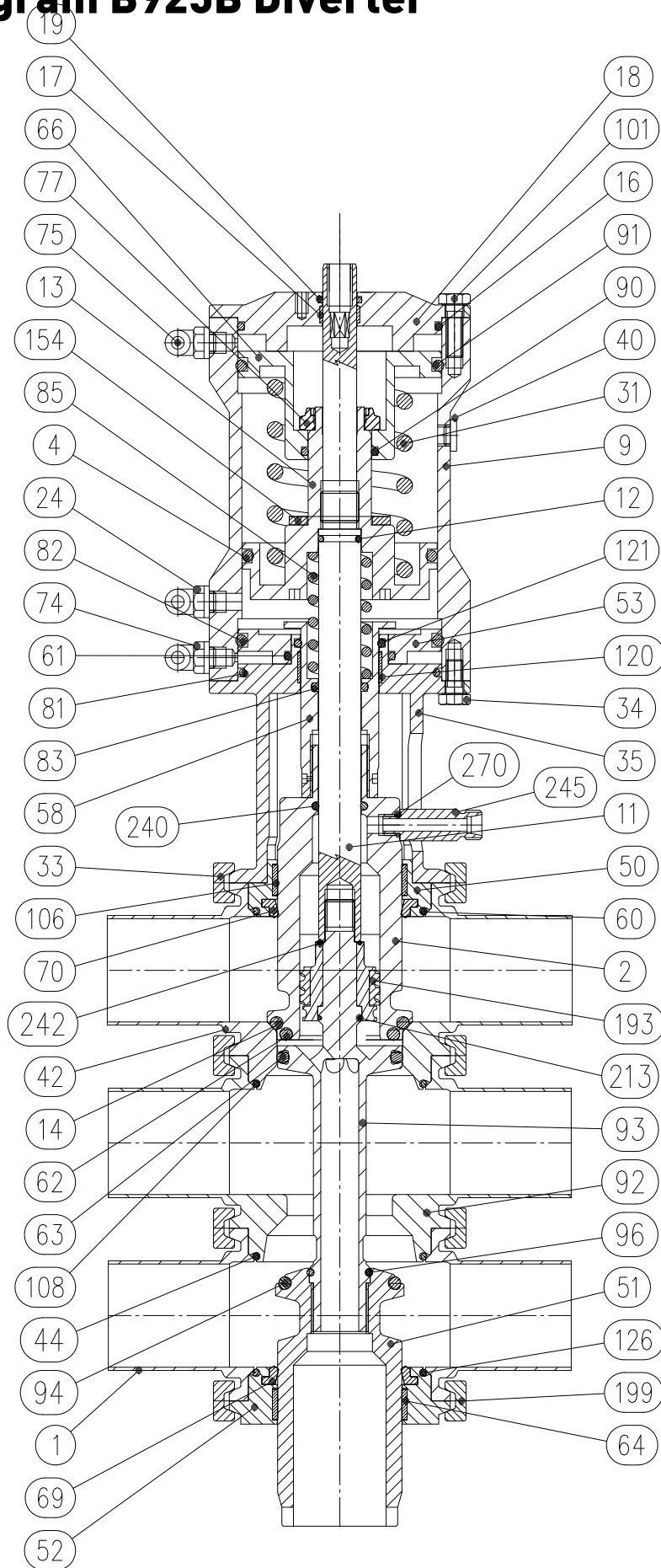


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21 2D diagram B925 Diverter



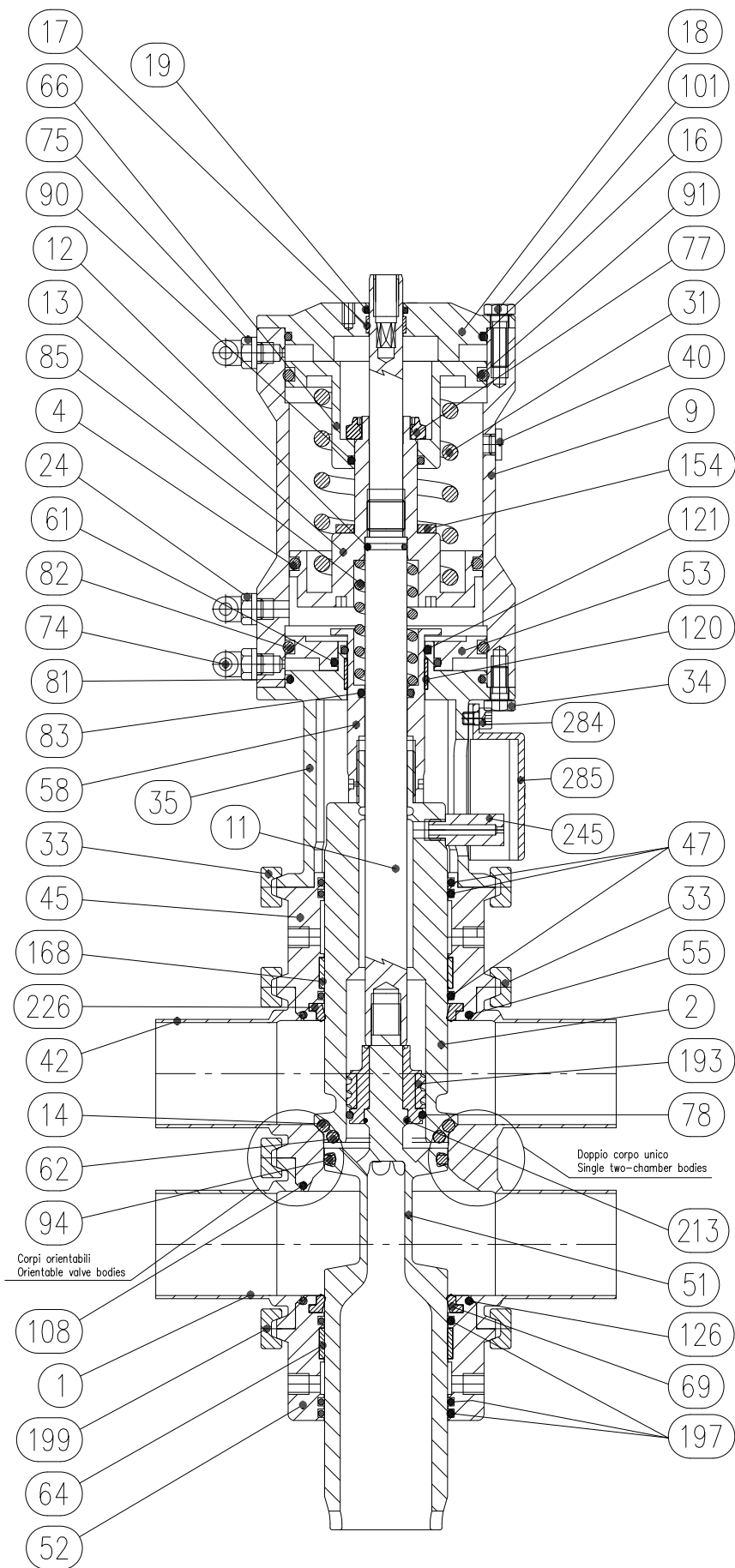
222D diagram B925B Diverter



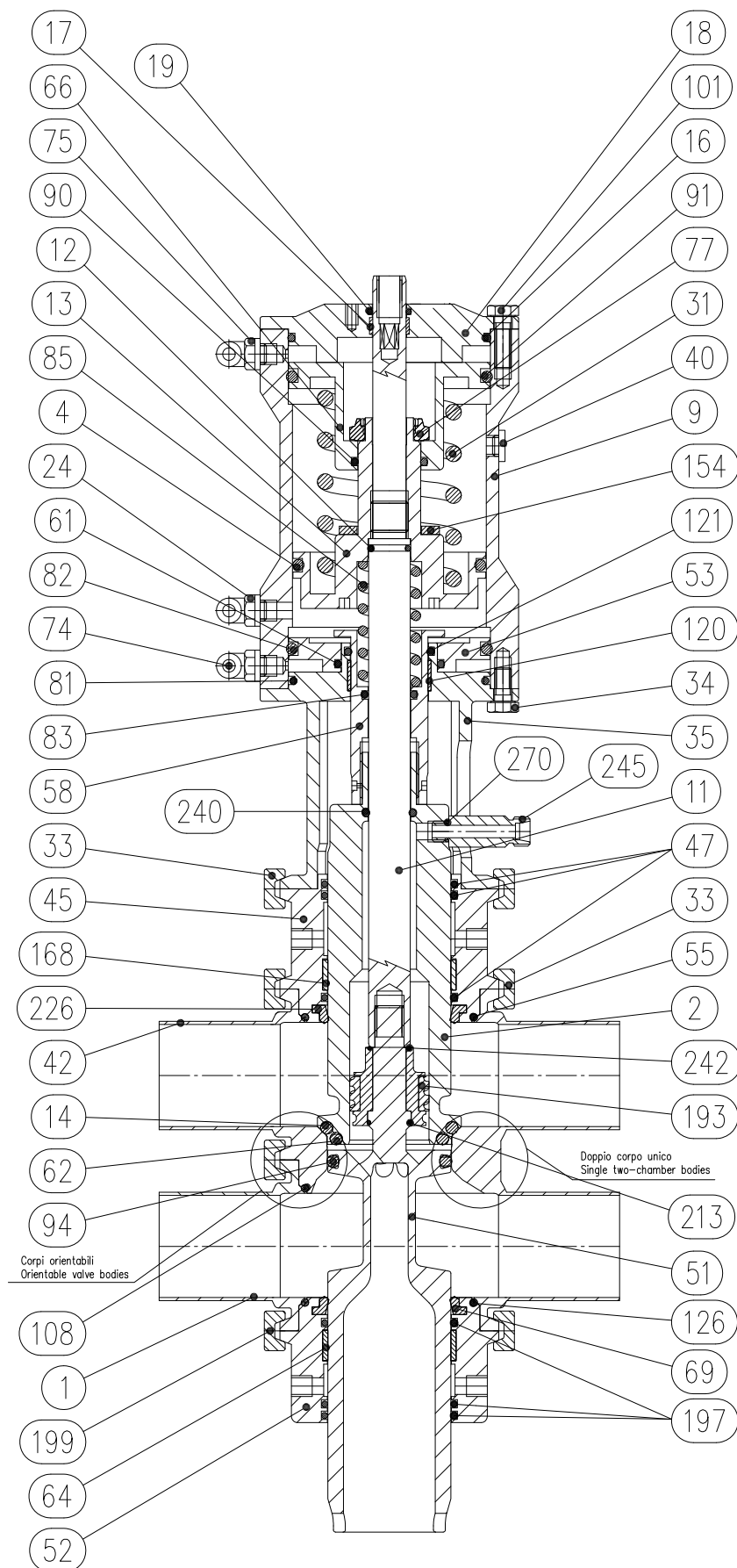
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232D diagram B925V



24 2D diagram B925A



25 Warranty

1. VALIDITY

Bardiani Valvole's Products are manufactured in compliance with the technical specifications laid out in their "Instruction, Use and Maintenance Manual" and are fully compliant with the directives specifically mentioned in these manuals.

Bardiani Valvole S.p.A. guarantees its own Products against any design and/or construction and/or material defects and/or faults for a period of 12 (twelve) months from the date of delivery.

Notification of any Product defects and/or faults must be sent in writing to Bardiani Valvole S.p.A. within 8 (eight) days from their detection, providing adequate documentation of the defect/fault encountered as evidence.

Services provided in the warranty period shall not result in an extension of the warranty beyond the stipulated 12 (twelve)-month period, as this warranty validity period is to be considered mandatory.

2. CONTENTS OF THE WARRANTY

Notwithstanding and without prejudice to the rights of the Buyer, which may be acknowledged by applicable law, this warranty is to be intended as limited, at the discretion of Bardiani Valvole S.p.A., to the repair and/or replacement of the Product and/or part of the Product and/or its components which is/are found to be defective due to design and/or manufacturing and/or material faults.

In the event of repair and/or replacement of the Product and/or any one of its parts and/or components, any returned item/s shall become the property of Bardiani Valvole S.p.A. and the relative shipping costs shall be charged to Bardiani Valvole S.p.A.

Bardiani Valvole S.p.A., shall be under no obligation to compensate for any immaterial and/or indirect damages and shall in no way be held liable for consequential damages and/or losses, such as (by way of example only), damages due to loss of business, contracts, opportunities, time, production, profits, goodwill, image etc.

No retailer or distributor or dealer or agent or representative or employee or person appointed by Bardiani Valvole S.p.A. is authorized to make any amendments and/or integrations and/or extensions to this warranty.

3. WARRANTY EXCLUSIONS

- Elastomers and electrical components are expressly excluded from this warranty.
- This warranty does not cover design faults emerging whenever a Product is manufactured by Bardiani Valvole S.p.A. based on designs and/or technical specifications provided by the Buyer.
- Moreover this warranty excludes the following:
 - faults and/or defects resulting from incorrect and/or unsuitable and/or inadequate transportation of the Product;
 - faults and/or defects resulting from failure to comply with the indications laid out in the "Instruction, Use and Maintenance Manual" with regards to installation of the Product or in any event caused by incorrect and/or unsuitable and/or improper installation;
 - faults and/or defects resulting from failure to comply with indications laid out in the "Instruction, Use and Maintenance Manual" with regards to use and/or maintenance operations and/or storage of the Product or in any event caused by incorrect and/or unsuitable and/or improper use and/or maintenance operations and/or storage;
 - faults and/or defects due to normal wear and tear of the Product and/or its parts and/or its components;
 - faults and/or defects in the Product and/or its parts and/or its components for work and/or repairs being carried out by unskilled staff or staff that has not been authorised by Bardiani Valvole S.p.A.;
 - faults and/or defects in the Product and/or its parts and/or its components caused by its being dropped and/or banged and/or dented and/or misused and/or tampering and/or breakage and/or accidents and/or any other event caused by negligence and/or carelessness and/or neglect by the Buyer and in general for any causes not ascribable to design and/or manufacturing and/or material defects;
 - faults and/or defects in the Product and/or its parts and/or its components caused by other events beyond the control of Bardiani Valvole S.p.A., such as force majeure or unforeseeable circumstances.

26 Recommendations

- 1.** Consultation of the "Instruction, Use and Maintenance Manual" is mandatory prior to the installation, use and maintenance of the products of all Products. All the information, indications, specifications, technical details provided herein are based on test data which the Manufacturer Bardiani Valvole S.p.A. holds to be reliable nevertheless the above is not deemed to be assumed as fully exhaustive inasmuch as not every possible use has been envisaged.
- 2.** All the illustrations and drawings provided are to be intended as indicative and therefore not binding, the Products illustrations being for presentation purposes only.
- 3.** It is the Buyer's duty to assess the suitability of the products for the use he intends to make of the same prior to placing the order as he/she will take the risks and accept liability in case of incorrect choice and use of the Products.
- 4.** The Manufacturer strongly recommends the Buyer to contact their sales team and request any information that might be needed in relation to the specifications and uses of the Products.
- 5.** The information provided in this manual refers to the standard products manufactured by Bardiani Valvole S.p.A. and therefore cannot be assumed to apply to customized products as well.
- 6.** Bardiani Valvole S.p.A. reserves the right to amend and/or integrate and/or update the data and/or information and/or technical details relative to Products at any time and without prior notice. Please visit the website www.bardiani.com, where the latest updated of the "Instruction, Use and Maintenance Manual" can be found".
- 7.** The content and validity of the warranty covering the Products of Bardiani Valvole S.p.A are dealt with in the relevant section in the "Instruction, Use and Maintenance Manual" which constitutes an integral part of the Products themselves.
- 8.** Bardiani Valvole S.p.A., shall not in any way be held liable for immaterial, indirect and consequential damages, such as (by way of example only), damages or loss of business, contracts, opportunities, time, production, profits, goodwill, image etc..



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