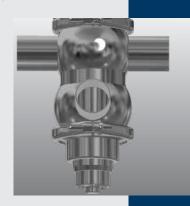


Instruction, Use and Maintenance Manual









MIXPROOF VALVE

B915PM0

Bardiani Valvole S.p.A.

via G. di Vittorio, 50/52 - 43045 Fornovo di Taro (PR) - Italy tel. +39 0525 400044 - fax +39 0525 3408 bardiani.com - www.bardiani.com



| MANUAL REVISION | DATE |
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Instruction, Use and Maintenance Manual



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INTRODUCTION

This "Instruction, Use and Maintenance Manual" has been drawn up expressly for expert technical personnel. Consequently any information which can easily be deducted from reading the text and/or examining the illustrations and/or drawings provided herein shall not be the object of further explanation.

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.

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 |
| | CAUTION 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. |
| | CAUTION Hand crushing | Exercise caution in executing the procedure Hand crushing hazard |
| | CAUTION Heavy loads | Exercise caution in executing the procedure Heavy suspended loads. |
| | CAUTION Severe burns | Heat emission hazard Very hot surface, risk of severe burns |
| | CAUTION Risk of explosions | Take Care, risk of explosions |

| MANDATORY SIGNS (FOR THE OPERATOR IN CHARGE OF ASSEMBLY/DISASSEMBLY) | | |
|--|-----------------------|---|
| Pictogram | Description | Notes |
| 0 | 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. |



| MANDATO | MANDATORY SIGNS (FOR THE OPERATOR IN CHARGE OF MECHANICAL MAINTENANCE) | | |
|-----------|--|---|--|
| Pictogram | Description | Notes | |
| 0 | 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 |
| Soft | 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. |
| 100 | PNEUMATIC DISCONNECTION | Disconnection of the air from the valve |
| 1 | APPLICATION OF FOODSAFE GREASE | Use FOODLUBE HI-TEMP 2 15254 grease only |
| 2/ | APPLICATION OF FOODSAFE GREASE | Use FOODLUBE Multi-paste 15756 grease only |
| | APPLICATION OF MULTIPURPOSE FOODSAFE GREASE | Use GIP GREASE MU EP 2 SE 463754 only |
| | THREADLOCK APPLICATION | Use SPEED BOND M500 threadlock only |
| <u> </u> | FRAGILE | Handle with care. Risk of component damage. |
| B | OPTIONAL | |



2 General safety warnings

Intended use

Bardiani valves have been designed, built and tested according to the provisions dictated by directive 2006/42/EC and are 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;
- 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.



CAUTION

The machine may not he 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 any installation, use or maintenance which fails to comply with the indications provided in this manual!



3 Technical data

| VALVE STRUCTURE DATA | | |
|---|--|--|
| Maximum pressure | PN10 | |
| Maximum seal pressure | 10 bar (145 psi) | |
| Minimum pressure | Vacuum | |
| Product minimum - maximum temperature | EPDM from -10°C to 140°C for applications with air. Depending on the material used for the gaskets and the product | |
| 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 | |

| 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 IS08573-1 | |
| External material | AISI 304L (1.4307) | |
| Seals | NBR | |
| Noise levels | 76 dB | |

| 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 |
| Greases | Unsuitable | Suitable | Suitable |
| Alcohols | Suitable | Unsuitable | Suitable |

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

The DN15--25 valves are included in compliance with Article 3, paragraph 1.3:

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.

Contact Bardiani Valvole S.p.A. in the event of any doubts.



4 Checking / Unpacking / Lifting

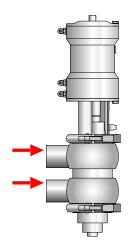
1. CHECK:

- 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.









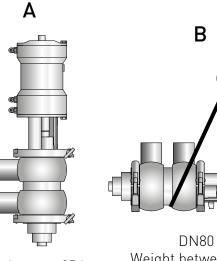
3. VALVE LIFTING:

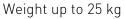
Take care as to the type of valve you are handling. Based on the size there are two different lifting procedures.

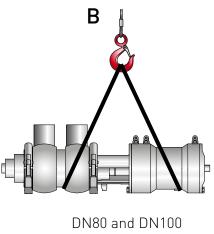


Before lifting the valve, make sure there are no disassembled or separate valve parts which could fall off causing injury to persons and damage to the valve.

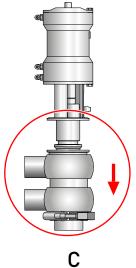
| Size DN | Weight Kg |
|------------|--------------|
| 15÷50 | А |
| 6580 | В |
| 100125 | С |

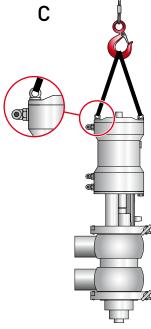






Weight between 25 kg and 50 kg





DN125 and DN150 Weight over 50 Kg

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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.



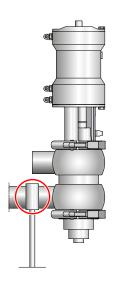
CAUTION

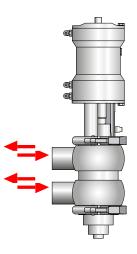
The seal seats may become deformed or cause valve malfunctioning.



3. CORRECT DIRECTION OF FLOW:

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





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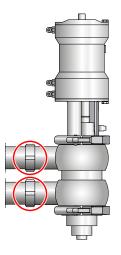
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4. VALVE CONNECTIONS/CONNECTORS:

If the valve is fitted with connectors, you may proceed with installation. Correctly insert the gaskets and tighten the connectors.





5. WALDING THE VALVE BODY ONTO PIPING:

- 1. Blow air into the central union
- 2. Remove the body from the rest of the valve before proceeding with welding operations.



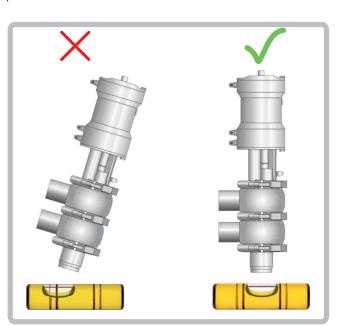
CAUTION!

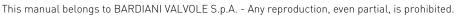
Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present).

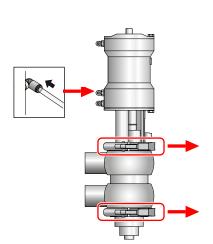


6. VALVE RIGHT INSTALLATION:

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







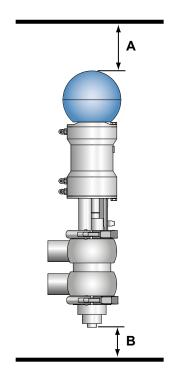




6. MINIMUM MAINTENANCE CLEARANCES:

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

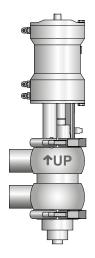
| DN | B91 | 5PM0 | |
|-------|--------|--------|--|
| DN | A (mm) | B (mm) | |
| 15÷40 | 370 | 130 | |
| 50 | 400 | 165 | |
| 65 | 420 | 180 | |
| 80 | 450 | 195 | |
| 100 | 570 | 235 | |
| 125 | 670 | 280 | |
| 150 | 670 | 280 | |





7. ORIENTATION OF THE DOUBLE BODY:

Pay attention to body orientation. In the double body, the UP arrows indicates the valve actuator position.





6 Operation



CAUTION

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





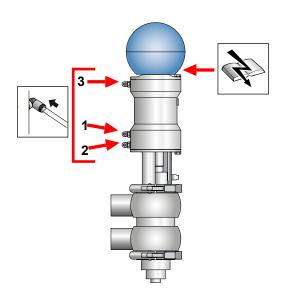
2. VALVE INSPECTION BEFORE OPERATION:

- 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 | | | |
| Leaks inside the closed valve caused by normal wear | Worn gasket | Replace the seal | |
| 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 | |

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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:

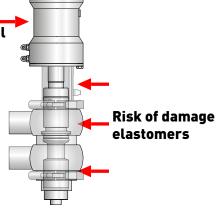
- Abide by the indicated detergent concentration values;
- Observe the instructions provided by the detergent manufacturer.
- Always wear protective safety glasses and gloves.



Risk of stainless steel corrosion

IMPORTANT!

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





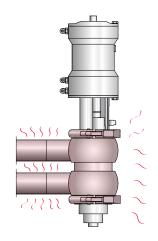
CALITION

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



General maintenance



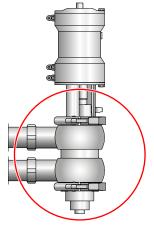


1. MAINTENANCE PRECAUTIONS

Maintenance operations must be carried out by expert technicians only.



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

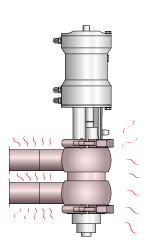




Always discharge the fluid pressure in the valve and piping before disassembling the valve.



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.



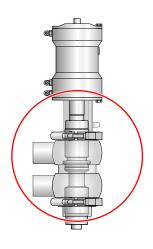
CAUTION

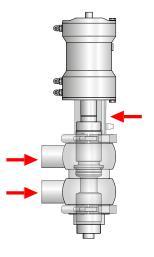
Hand crushing hazard. During operation there is a crushing hazard caused by the washing pin or the guide pin (when present). Never put hands in the valve openings.



3. REPLACEMENT OF WORN VALVE PARTS:

Always use original spare parts



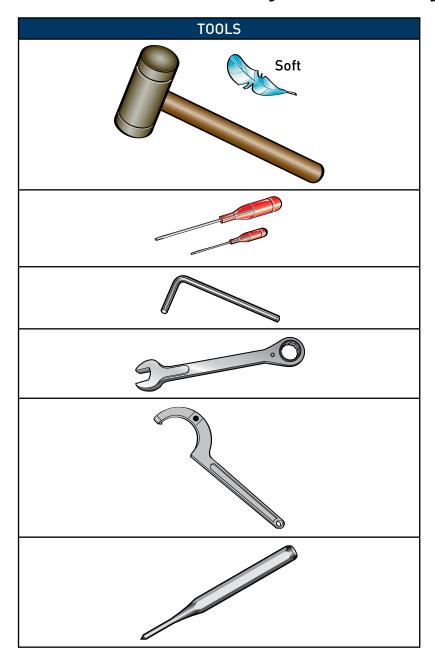


10Scheduled maintenance

| 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

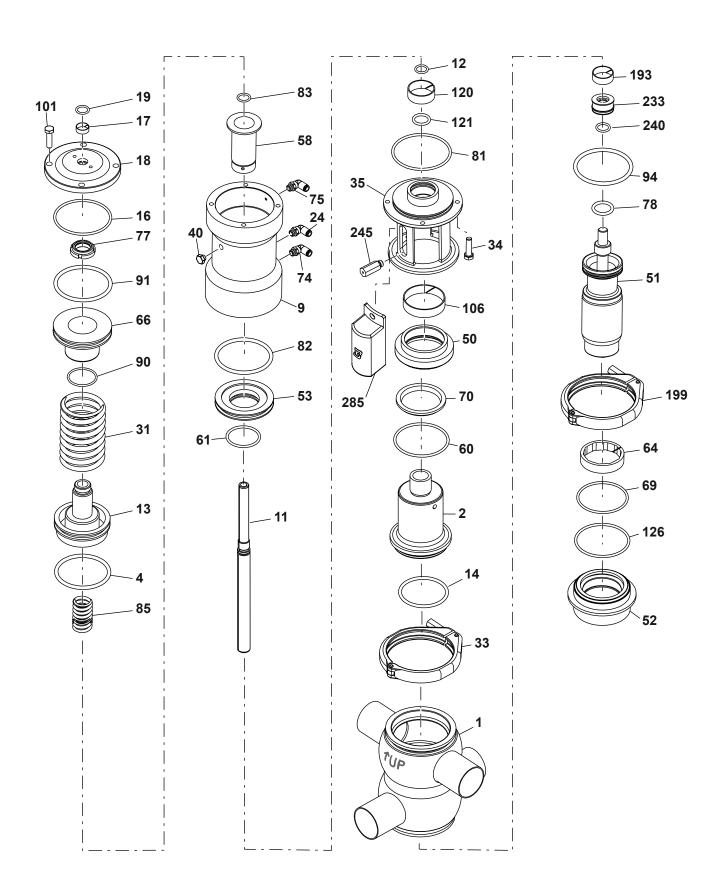




12 Mixproof valve B915PM0

| NO. | DESCRIPTION | NO. | DESCRIPTION |
|-----|------------------|-----|-----------------------|
| 1 | Valve body | 74 | Air coupling |
| 2 | Upper shutter | 75 | Air coupling |
| 4 | Seal ring | 77 | Threaded locking nuts |
| 9 | Cylinder | 78 | Seal ring |
| 11 | Shaft | 81 | Seal ring |
| 12 | Seal ring | 82 | Seal ring |
| 13 | Central piston | 83 | Seal ring |
| 14 | Seal ring | 85 | Secondary spring |
| 16 | Seal ring | 90 | Seal ring |
| 17 | Guide bushing | 91 | Seal ring |
| 18 | Plug | 94 | Seal ring |
| 19 | Seal ring | 101 | Screw |
| 24 | Air fitting | 106 | Guide bushing |
| 31 | Main Spring | 120 | Guide bushing |
| 33 | Clamp | 121 | Seal ring |
| 34 | Screw | 126 | Seal ring |
| 35 | Assembly part | 193 | Guide bushing |
| 38 | Guide bushing | 199 | Clamp |
| 40 | Breather cap | 233 | Spindler liner |
| 41 | Seal ring | 240 | Seal ring |
| 46 | Screw | 244 | inductive sensor |
| 50 | Sear ring disc | 245 | Guide pin |
| 51 | Lower shutter | 285 | Pin protection |
| 52 | Lower plug | | |
| 53 | Lower piston | | |
| 58 | Adjusting sleeve | | |
| 60 | Seal ring | | |
| 61 | Seal ring | | |
| 64 | Seal ring | | |
| 66 | Upper piston | | |
| 69 | Lip seal | | |
| 70 | Lip seal | | |
| | F 5555 | | |

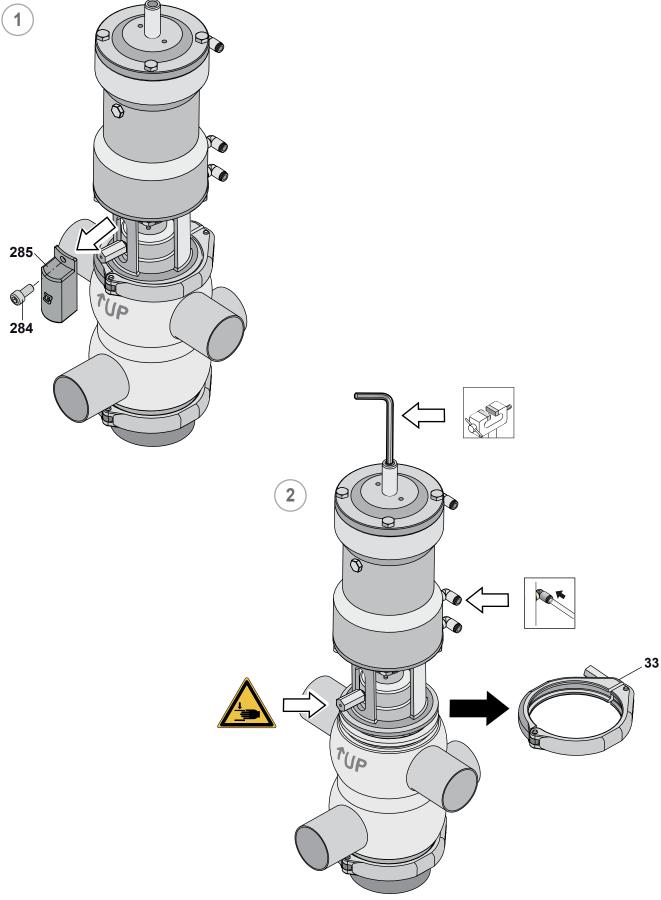




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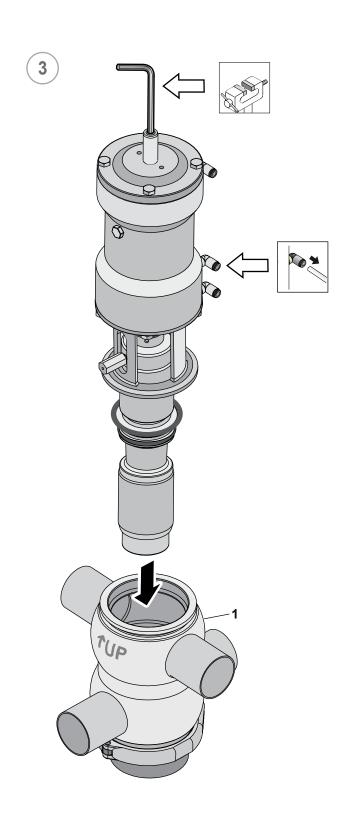


13 Disassembly of the B915PMO

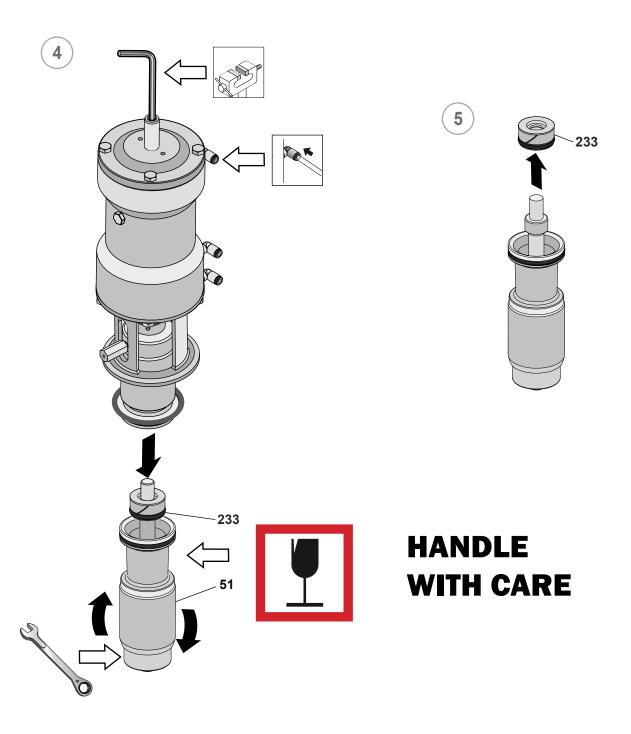


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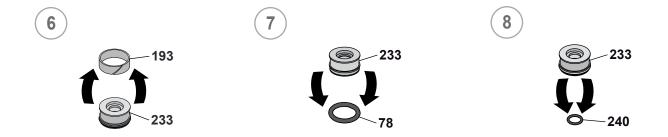


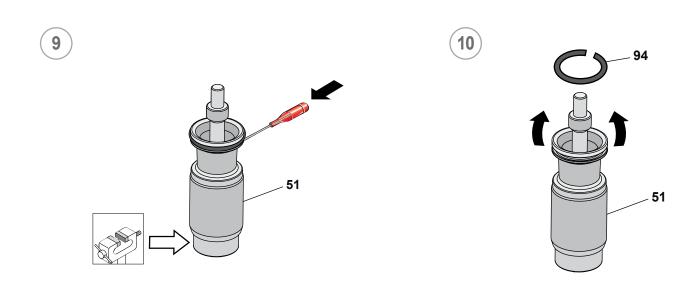




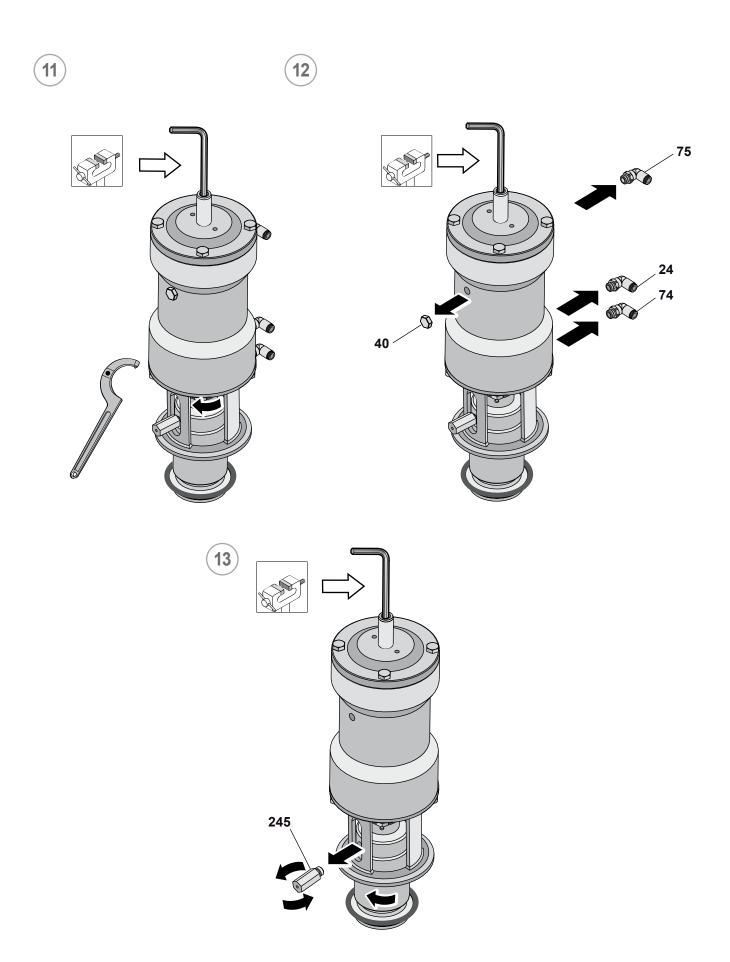




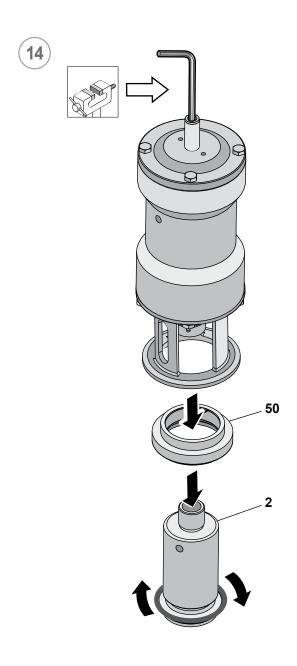


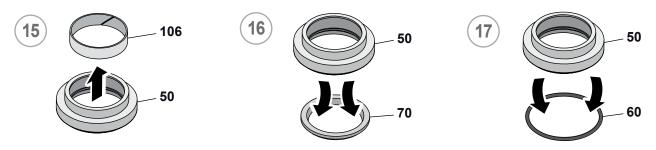








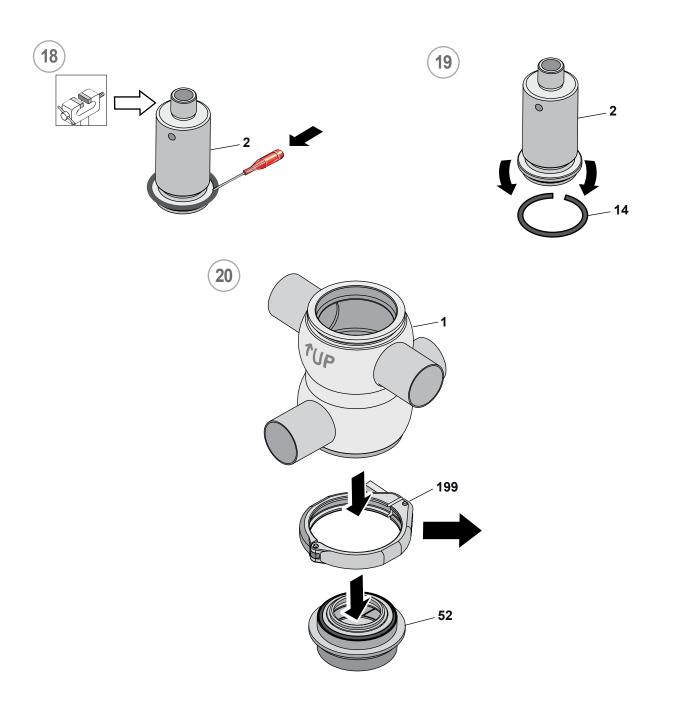


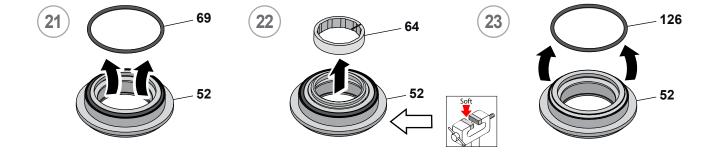


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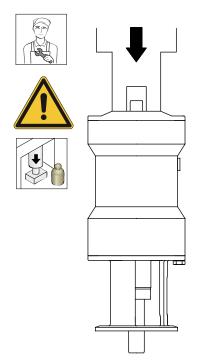


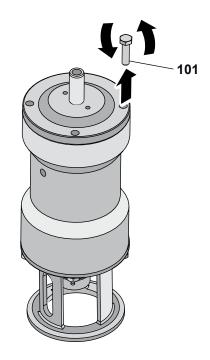


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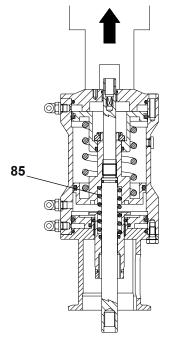


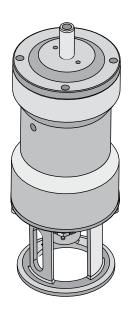




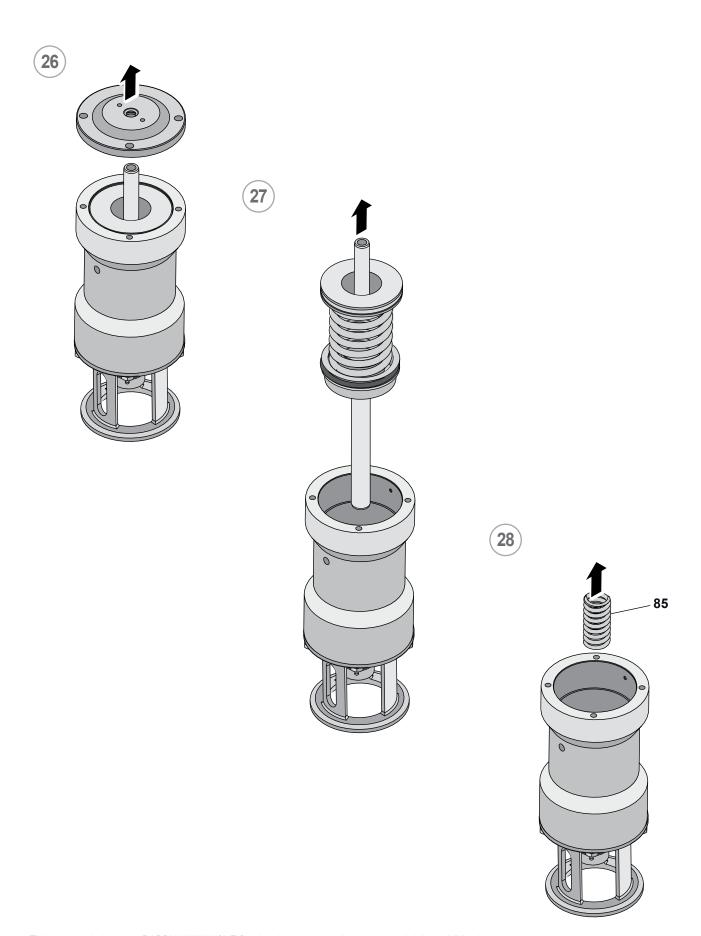




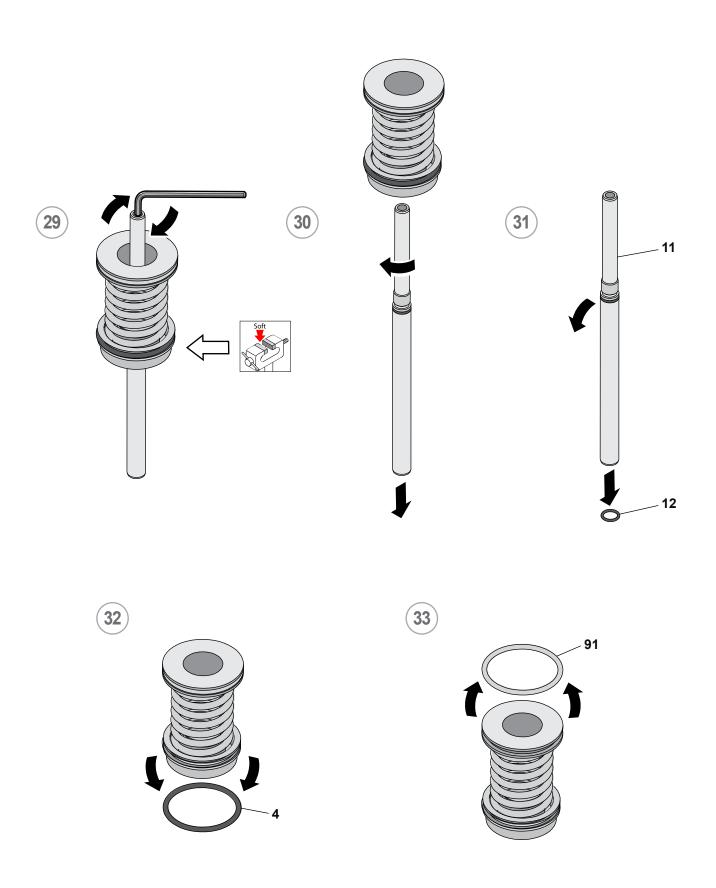




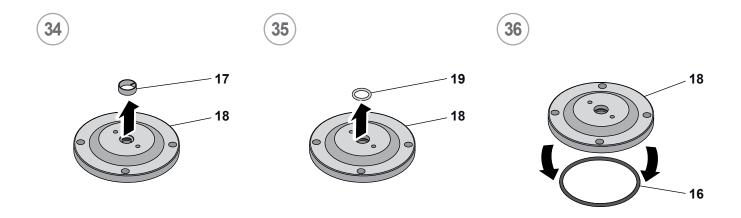


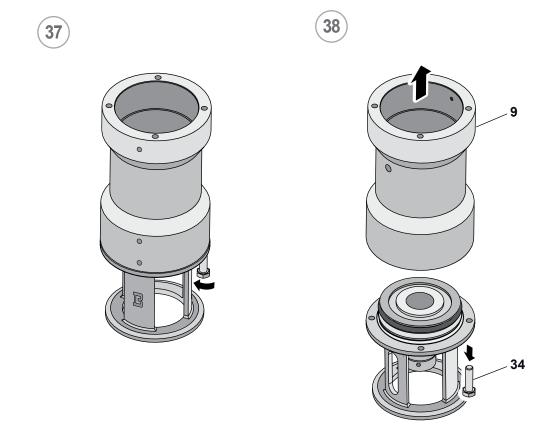




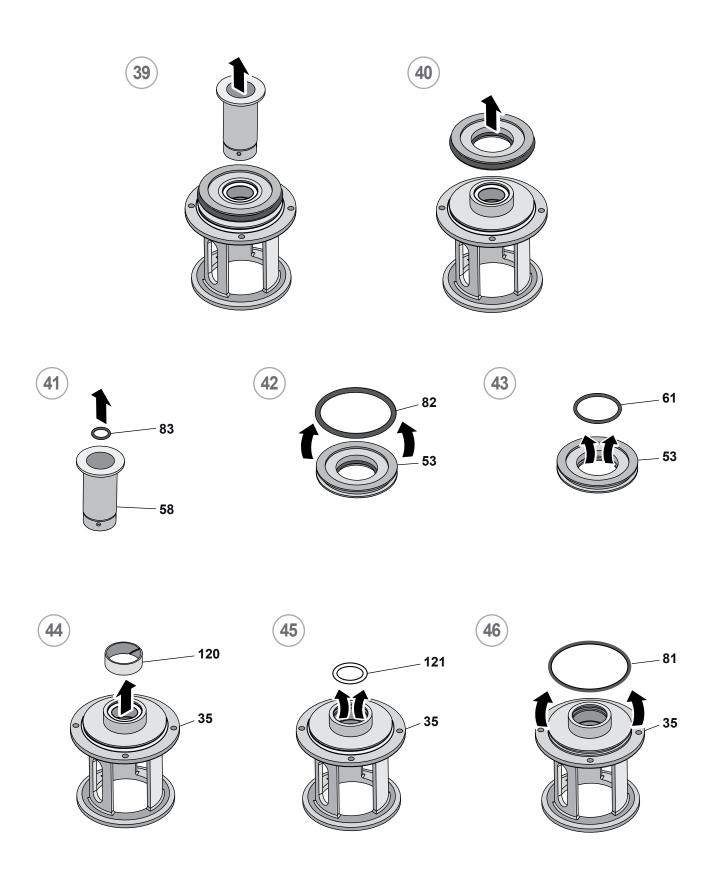






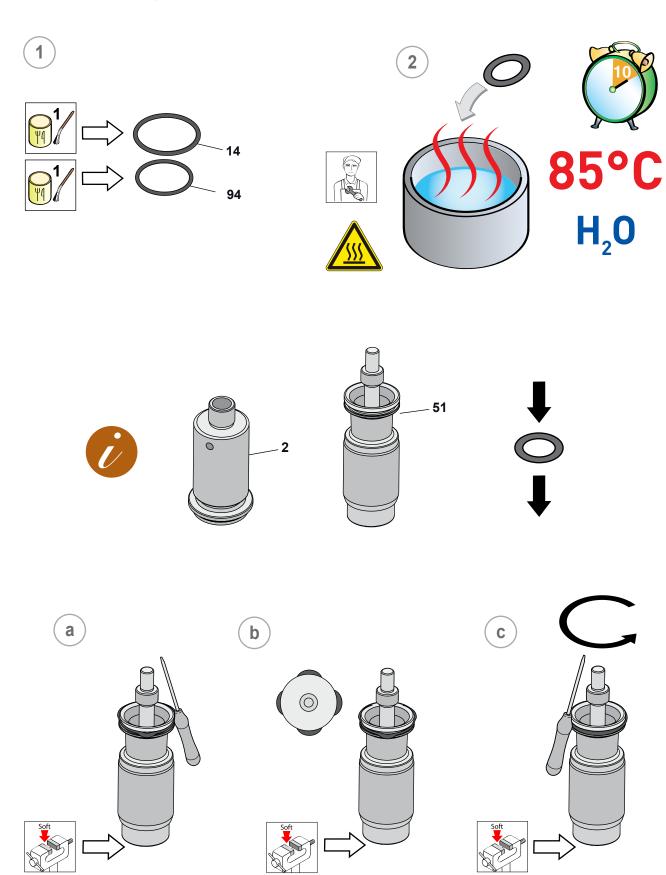




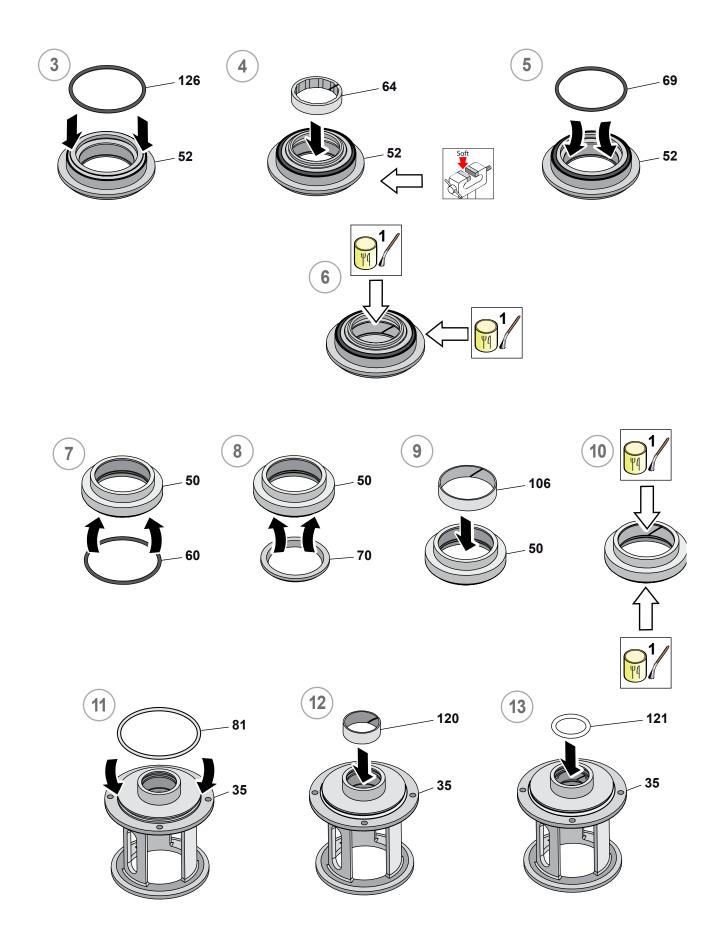




14 Assembly of the B915PM0



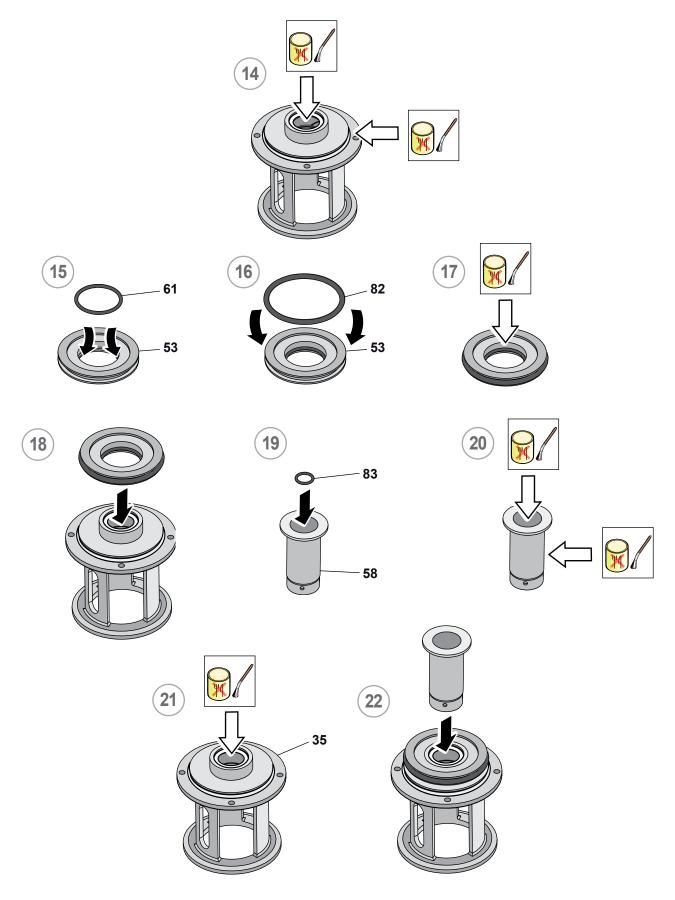




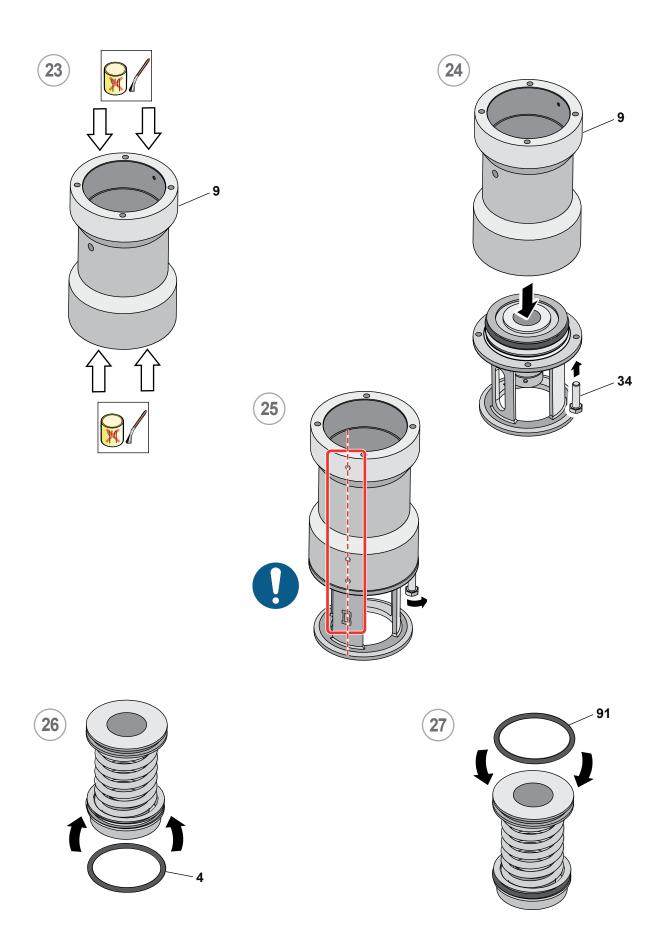
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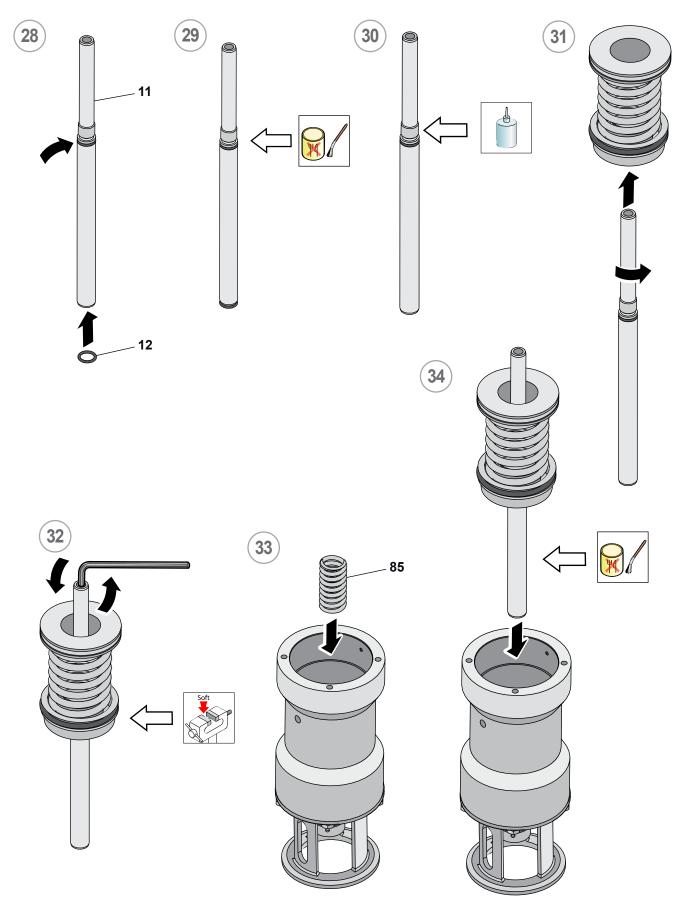






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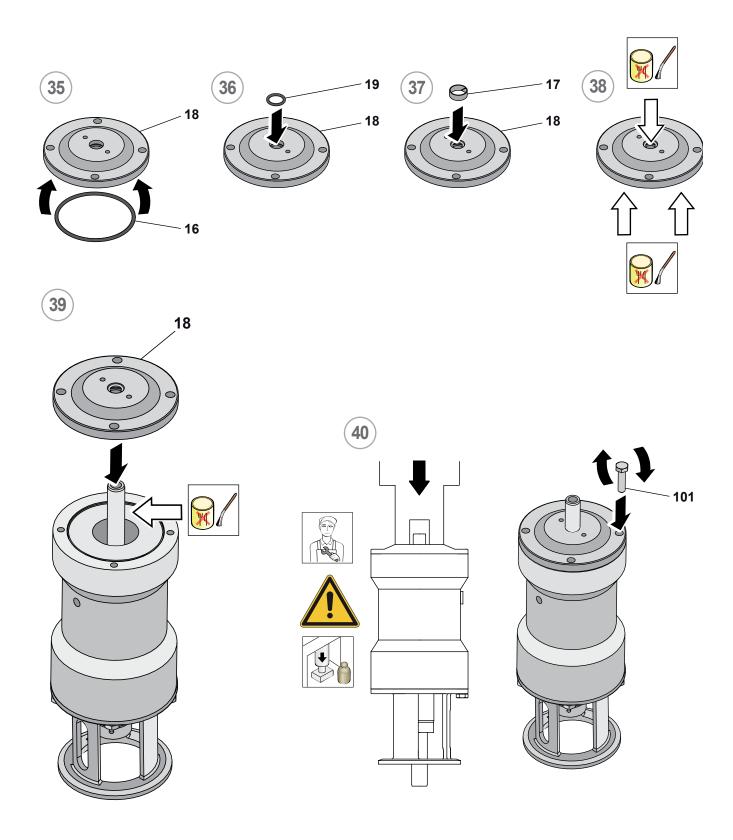




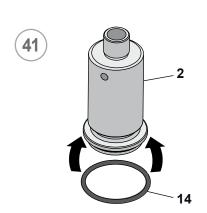
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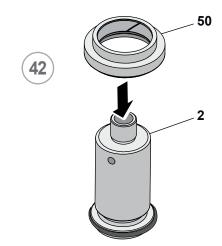
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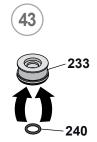


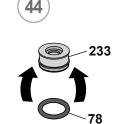


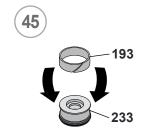


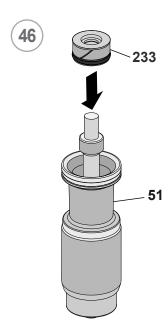




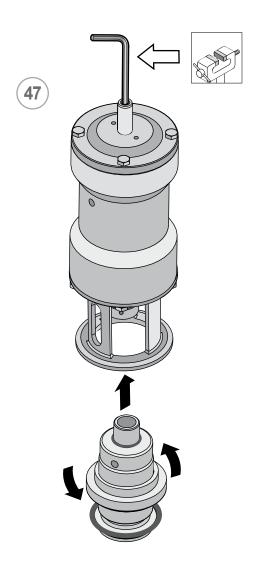


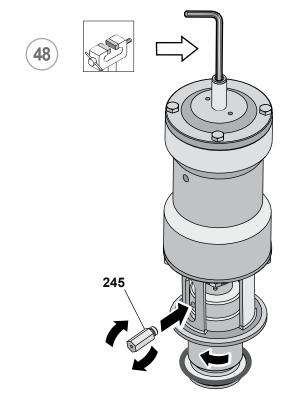




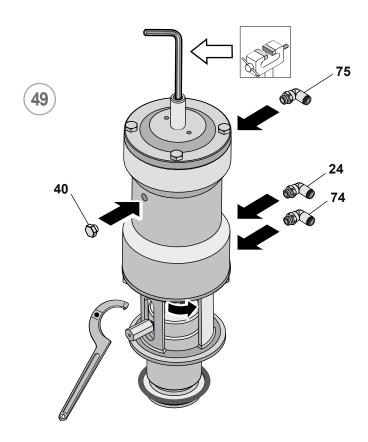


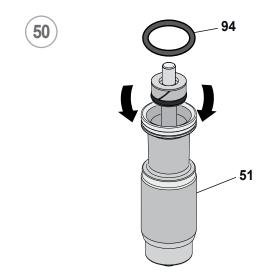




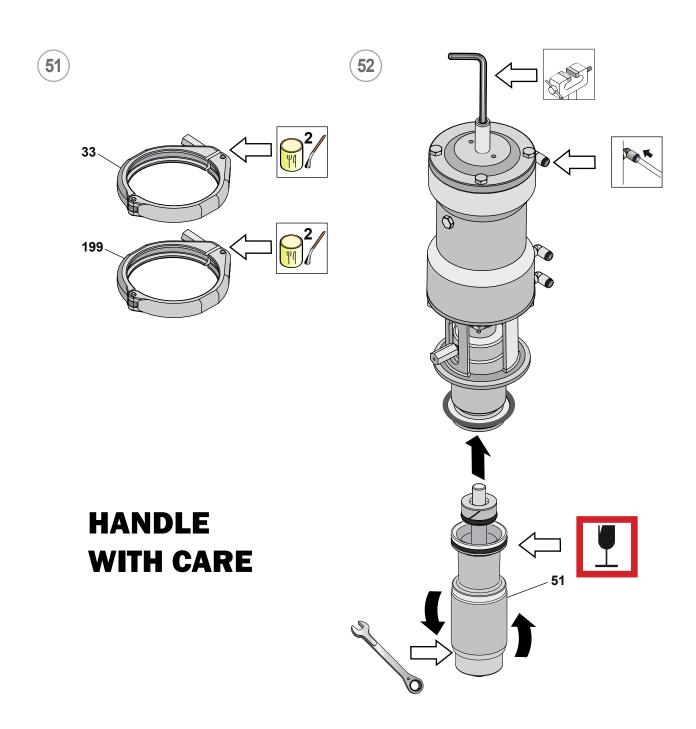






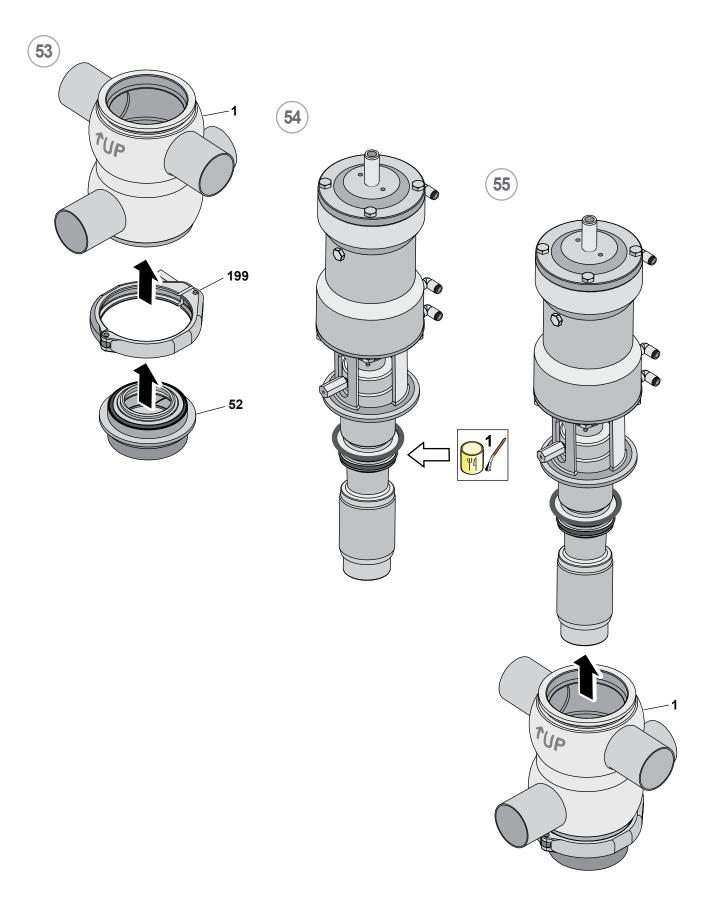




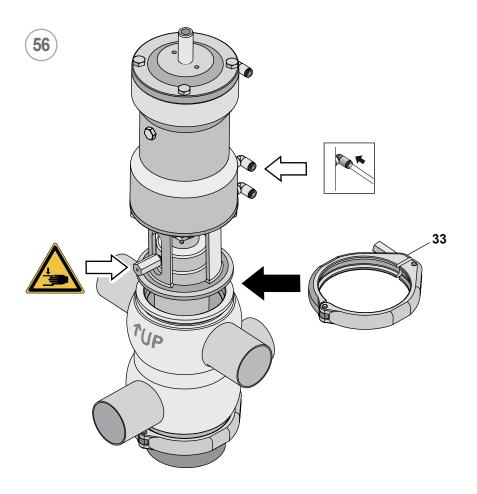


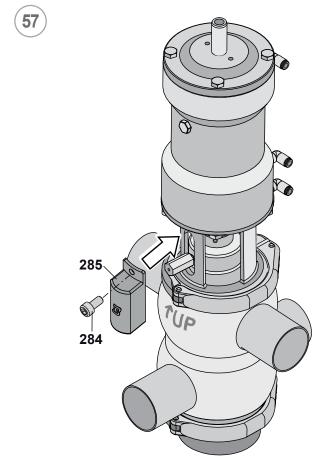
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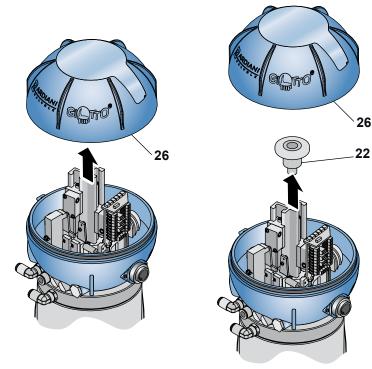


15 Lower seatlift sensor adjustment

To comply with PMO Section 7, Item 15p(B) compliant including Part 6 exception for (seat-lifting), carry out the following steps to position and adjust the proximity sensor to detect a 1.59 mm seat lift movement. Lower seat lift downward stroke: 7.5 mm.

Carry out the following steps:

1 Open the control unit and remove the cam from the shaft.



Screw the cam on the

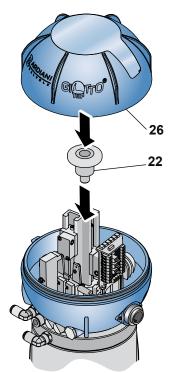
lift is

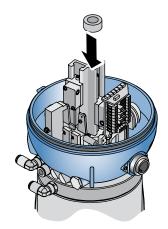
shaft, spacer will limit the

lower lift downward stroke,

2 Install the annular ring spacer for the corresponding DN, spacer to be aligned and located on top of the actuator shaft at the top cylinder.



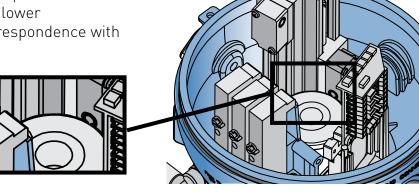




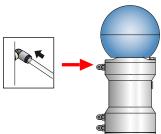
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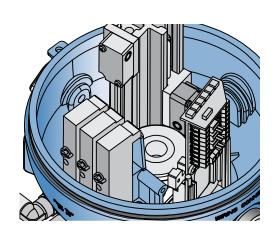
When the valve is in the close position set the proximity switch to have the its lower quarter active sensing zone in correspondence with the upper part of the cam.



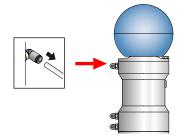
5 Activate the lower lift with regulated air at 6 bar in the upper air connection in the actuator.



6 If the Proximity switch is correctly calibrated (screw positioning), it must NOT send a feedback signal, and its LED should be OFF. Lower seat is now consider open with the 1.59 mm downward movement offset set by the spacer.



7 Deactivate the lower lift by removing air from upper air connection in the actuator.

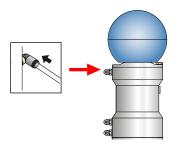


- 8 Seat Lift and Cam should return to its closed position, proximity Switch LED must now be light in operating mode, and send a feedback signal.
- 9 unscrew the cam and remove the spacer. screw the cam again.

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10 Activate the lower seat lift with regulated air at 6 bar in the upper air connection in the actuator.



- 11 Seat lift lower shutter will open.
- 12 The LED on the Proximity switch must now be light ON.



16 Upper seatlift external adjustment

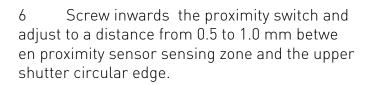
To comply with PMO Section 7, Item 15p(B) compliant including Part 6 exception for (seat-lifting), carry out the following steps to position and adjust the proximity sensor to detect a 1.59 mm seat lift movement. Upper seat lift upward stroke: 2mm.

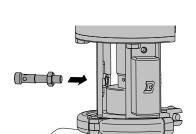
Carry out the following steps:

- 1 Valve must be in its closed position,
- 2 Assemble the proximity switch, two nuts are required to position the threaded switch at the valve actuator support.
- 3 Screw in half way the first nut.

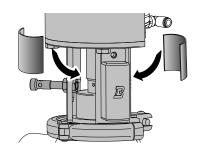


- 4 Position by hand second nut against the slot from the inside of the assembly part.
- 5 Insert the proximity switch in to the slot.





7 Install the annular ring spacer for the corresponding DN, spacer is split, annular ring will limit the stroke of the seat lift to 1.59 mm.

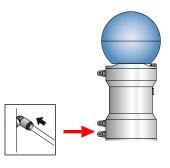


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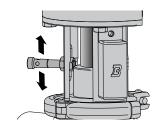
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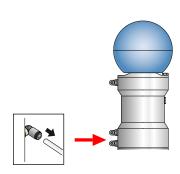
Activate the upper seat lift with regulated air at 6 bar in the lower air connection in the actuator.



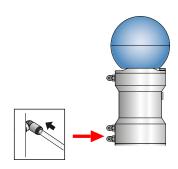
9 Adjust and regulate the proximity switch position until the lower middle section of the sensitive area is in correspondence with the upper edge of the upper shutter.



- 10 Fix the proximity switch in position with the external nut.
- 11 The LED on the Proximity switch must now be lit ON, with NO feedback signal to the control system.
- Deactivate the upper lift by removing air from lower air connection in the actuator,



- 13 Remove the split annular ring spacer.
- 14 Proximity switch LED must now be lit OFF with feedback signal to the control system.
- 15 Activate the upper seat lift with regulated air at 6 bar in the lower air connection in the actuator.





- 16 Seat lift upper shutter will open, with a stroke of 2mm
- 17 The LED on the Proximity switch must now be lit ON, with NO feedback signal to the control system.



17Annexes



GB - EC Declaration of conformity - A3-P-PRG-GB

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 ES Directives and Regulations:

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

and the following harmonized slandards, 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 10/10/2016

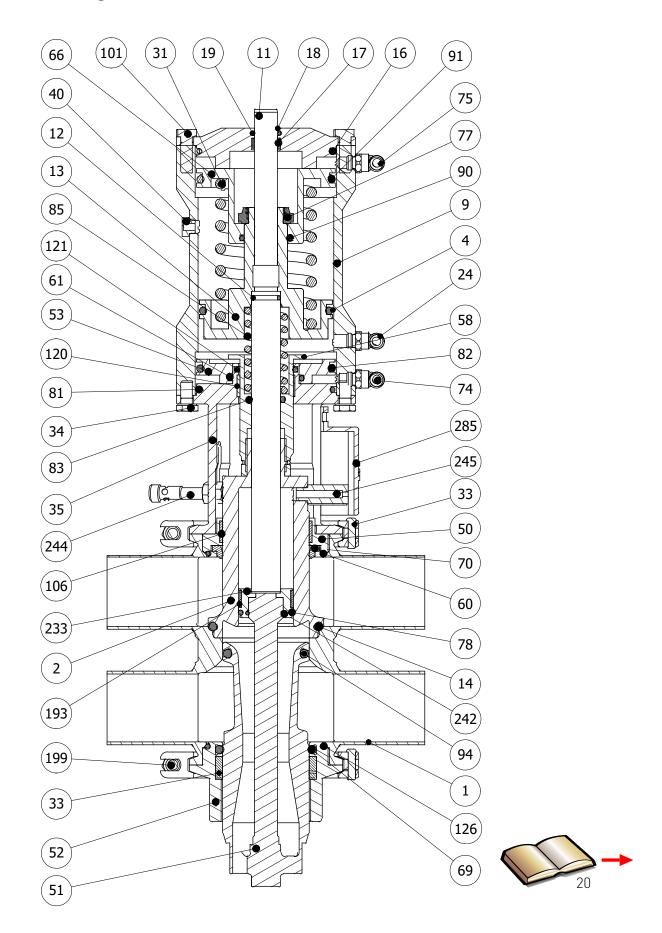
> Emanuela Bardiani Legal representative

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

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



18 2D diagram B915PM0



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19 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 it 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 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 unforseeable circumstances.



20 Recommendations

- 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.
- 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.
- 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.
- ■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".
- 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.
- 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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NOTES



Bardiani Valvole S.p.A. via G. di Vittorio, 50/52 - 43045 Fornovo di Taro (PR) - Italy tel. +39 0525 400044 - fax +39 0525 3408 bardiani@bardiani.com - www.bardiani.com