

Instruction, Use and Maintenance Manual









BUTTERFLY VALVE MANUAL VVF

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MANUAL REVISION	DATE



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 orf 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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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.		
<u></u>	CAUTION Severe burns	Heat emission hazard Very hot surface, risk of severe burns		
	CAUTION Risk of explosions	Take Care, risk of explosions		

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MANDATORY SIGNS (FOR THE OPERATOR IN CHARGE OF MECHANICAL MAINTENANCE AND THE OPERATOR IN CHARGE OF ASSEMBLY/DISASSEMBLY) Pictogram Description Notes Special instructions must be followed to avoid injury to **OBLIGATION** persons. General Protective gloves must be available for handling **PROTECTIVE GLOVES** objects which could cause hand injuries or when there is the possibility of coming into contact with harmful substances.. Hard hats must be available when lifting heavy parts. **HARD HAT** Use safety footwear to protect against injuries caused **FOOTWEAR** by falling objects during maintenance operations (particularly when dismantling parts). Suitable clothing such as overalls. It is strictly **SUITABLE CLOTHING** prohibited to wear clothes with large flapping sleeves and/or other loose items which could easily get caught up in machine parts. Protective glasses must be available when there is the **SAFETY GLASSES** 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.		
	PNEUMATIC DISCONNECTION	Disconnection of the air from the valve		
1	APPLICATION OF FOODSAFE GREASE	Use CIP-FILM grease or similar		
2/	APPLICATION OF FOODSAFE GREASE	Use FOODLUBE Multi-paste grease or similar		
	APPLICATION OF MULTI-PURPOSE GREASE	Use AGIP GREASE MU EP 2 SE or similar		
	THREADLOCK APPLICATION	Use SPEED BOND M500 threadlock or similar		
B	OPTIONAL			

1.1 Operator training



All persons who have to work on the valve must be qualified to carry out the relative maintenance tasks. They must be informed as to the possible hazards involved and must observe all the safety instructions set out in this manual. Allow expert personnel only to work on the electrical components.

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2 GENERAL SAFETY WARNINGS

2.1 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.



CAUTION

The valve 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 installation, use or maintenance which fails to comply with the indications provided in this manual!



3 TECHNICAL DATA

VALVE DATA		
Maximum pressure	10 bar (DN15-100) - 8 bar (DN125) - 6,5 bar (DN150)	
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, MVQ, 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	

GASKET MATERIALS COMPATIBILITY				
Product	EPDM	FKM	HNBR	MVQ
Temperature (applications with air)	from -10°C to +140°C	from -10°C to +200°C	from -10°C to +130°C	from -70°C to +230°C
Caustic soda 2%	60°C	30°C	To be checked	Unsuitable
Nitric Acid 2%	60°C	80°C	To be checked	Unsuitable
Saturated steam 125°C	Suitable	To be checked	Suitable	Unsuitable
Greases	Unsuitable	Suitable	Suitable	Unsuitable
Alcohols	Suitable	Unsuitable	Suitable	Suitable







Valves with DN equal or smaller than DN25 are not included in compliance with Article 4, paragraph 3.

Valves designed for use with gases, liquefied gases, gases dissolved under pressure, vapours and also those liquids whose vapour pressure at the maximum allowable temperature is greater than 0,5 bar above normal atmospheric pressure (1 013 mbar) are included within the following limits:

- valves with DN between DN32 and DN100 (included) with group 1 fluids;
- valves with DN125 or bigger with group 2 fluids.

The end user is asked to carry out the acoustic emission tests once the valve has been installed in the destination plant.

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

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4 CHECKING / UNPACKING / LIFTING

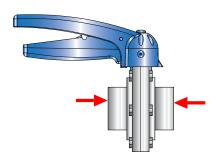
1. CHECK:

- 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.









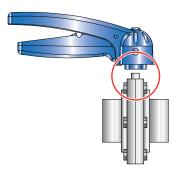
3. VALVE LIFTING:

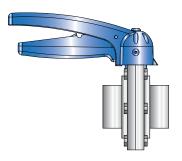
Take care as to the type of valve you are handling. Based on the size there are different lifting procedures.



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.







CAUTION!

The figures above are used purely to represent the methods and procedures for hoisting the valves. Handle the device according to the regulations in force in the country of use.

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**



- Use expert personnel for installation/uninstallation operations;
- For the connection, use piping of a material with at least equal characteristics to those of the valve.

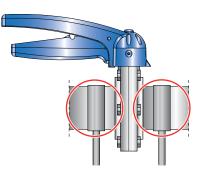


1. REDUCING THE STRESS TO WHICH THE VALVE IS SUBJECTED:

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



The seal seats may become deformed or cause valve malfunctioning.





The figures above are used purely to represent the methods and procedures for hoisting the

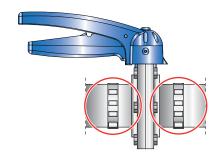
Bardiani Valvole S.p.A. declines all liability for any damage to things and/or injuries to persons caused by improper and/or incorrect hoisting of the valve.





2. VALVE CONNECTIONS/CONNECTORS:

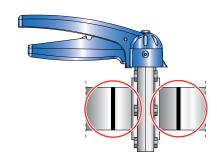
If the valve is fitted with connectors, you may proceed with installation. Correctly insert the gaskets and tighten the connectors.





3. WELDING THE VALVE BODY ONTO PIPING:

Remove the body from the rest of the valve before proceeding with welding operations. Please refer to the following pages in this manual.

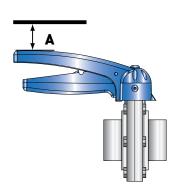




4. MINIMUM MAINTENANCE CLEARANCES:

Make sure there is enough room around the valve for it to be disassembled.

VVF		
Valve dimension (DN)	A (mm)	
10-100	220	
125-150	270	





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.



6 OPERATION



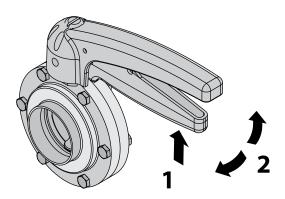


1. VALVE INSPECTION BEFORE OPERATION:

- Open and close the valve several times;
- Check that the valve works correctly and accurately.

This opening and closing of the valve must be performed slowly to avoid "water hammer" inside the system to which the valve is connected.

Use of the valve is executed by pressing the spring handle and manually turning it on the vertical axis. Opening can be partial at angles of approximately 30°.





7 TROUBLESHOOTING



TROUBLE	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	
Externat teak	Excessive temperature		
Premature leaks inside the	Aggressive fluids	Modify the operating conditions	
closed valve	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	



Risk of stainless steel corrosion

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.







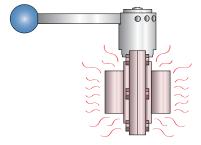
Risk of damage elastomers

- 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



9 DISPOSAL







At the end of its service life, the device must be recycled in accordance with the legislation in force in the country of valve use.

Any hazardous residues must be taken into consideration and adequately handled.

The valve is made of AISI 316L and AISI 304 stainless steel, elastomers (gaskets), plastic (control unit) and electrical components (terminal boards, solenoid valves, sensors).

Adhere to the following steps before disconnecting the valve and refer to the heading "General Maintenance".

- make sure the line on which the valve is installed in is not in use
- empty the line on which the valve is installed and clean if necessary
- disconnect the air supply if it is not required during dismantling
- disconnect the valve from the power supply
- remove the valve from the system
- move the valve in observance of the rules set out in the heading "Lifting"
- to dismantle the valve, refer to the heading "Disassembly"



10 MAINTENANCE

10.1 General maintenance





1. MAINTENANCE PRECAUTIONS

Maintenance operations must be carried out by expert technicians only.



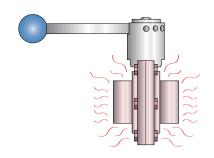
CAUTION!

Maintenance operations must be carried out with the line stopped.



CAUTION

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







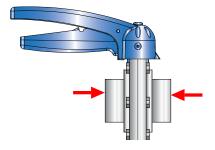
CAUTION!

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.



3. REPLACEMENT OF WORN VALVE PARTS:

Always use original spare parts

10.2 Scheduled maintenance

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



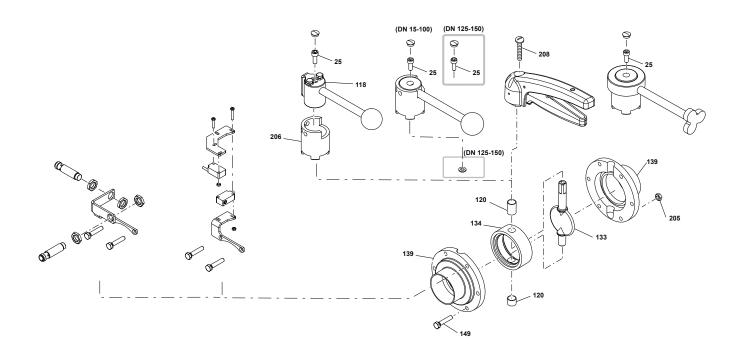
10.3 Tools useful for Disassembly/Reassembly

TOOLS	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150
9			5.5	- 10 - 13	- 19			5,5 - 13 1	3 - 17 - 9



10.4 Manual butterfly valve VVF

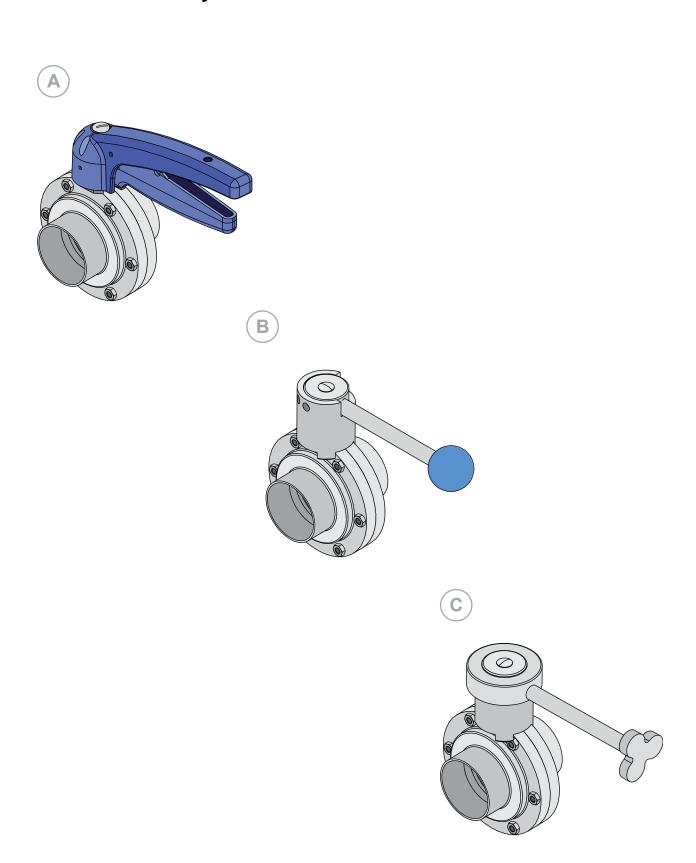
NO.	DESCRIPTION
25	Screw
120	Bush
133	Butterfly
134	Seal
139	Half body
149	Screw
205	Nut
208	Screw



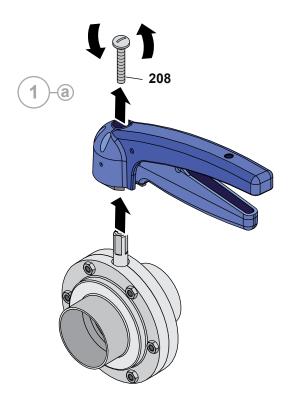


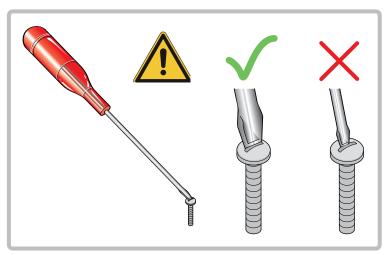
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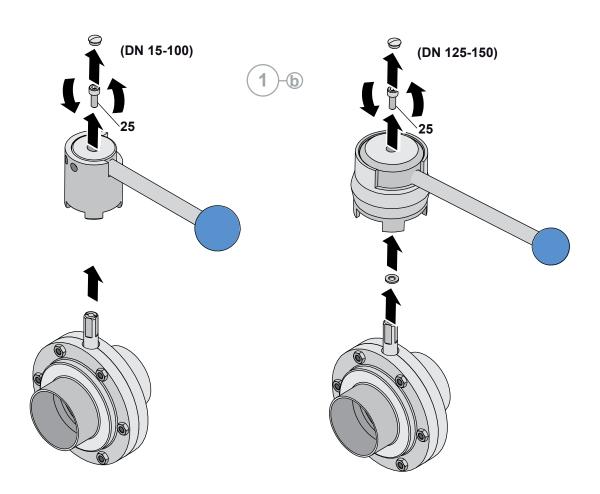
10.5 Disassembly of the VVF



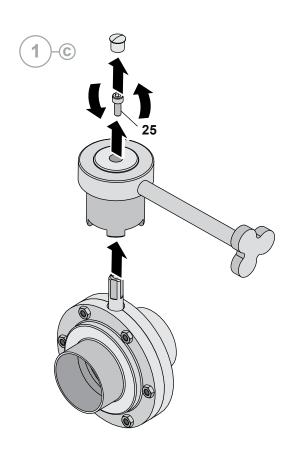


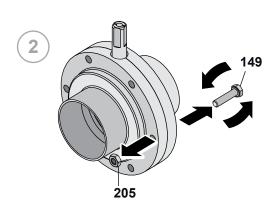




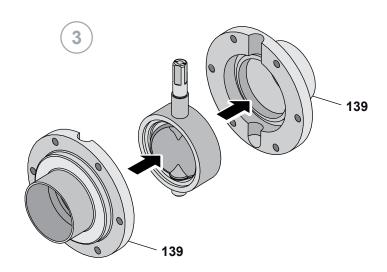


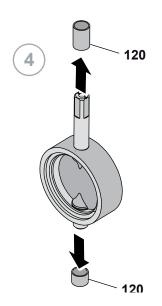


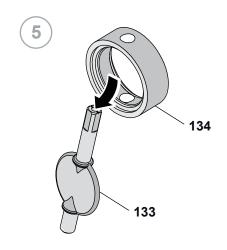






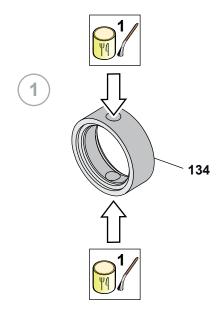


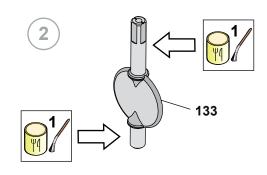


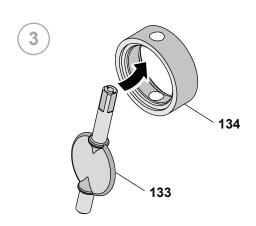


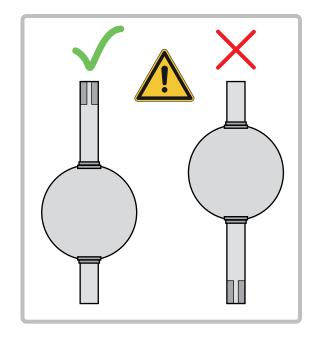


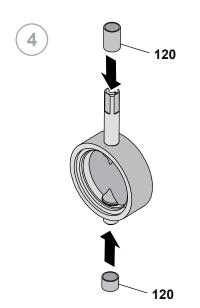
10.6 Assembly of the VVF



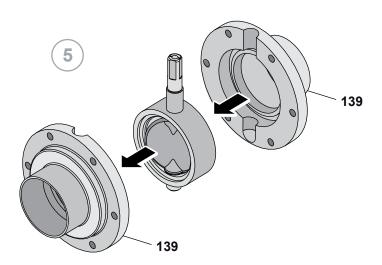


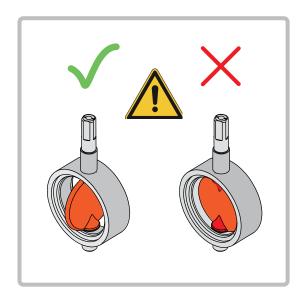


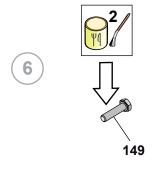


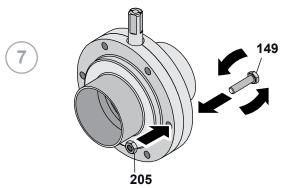






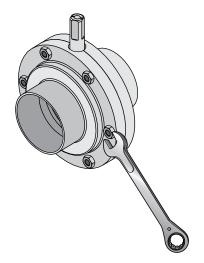


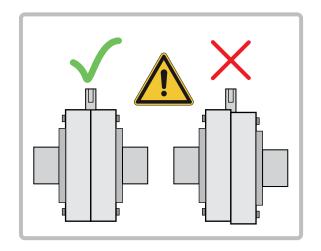


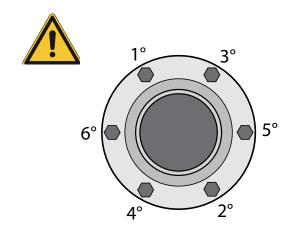




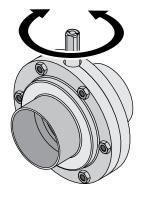


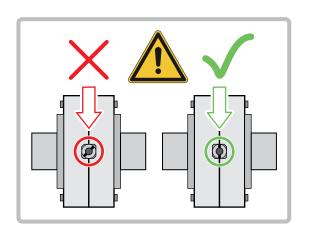






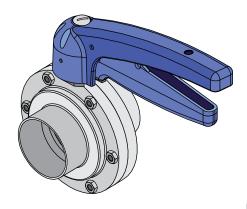




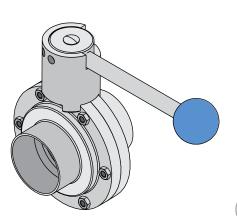




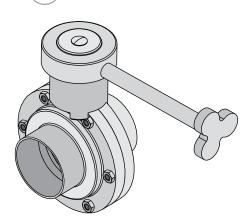






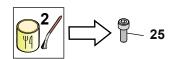




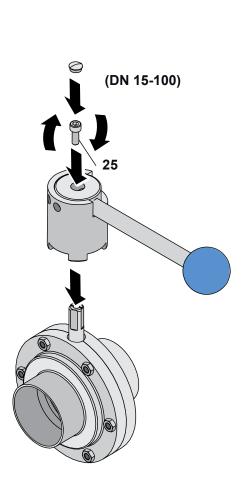


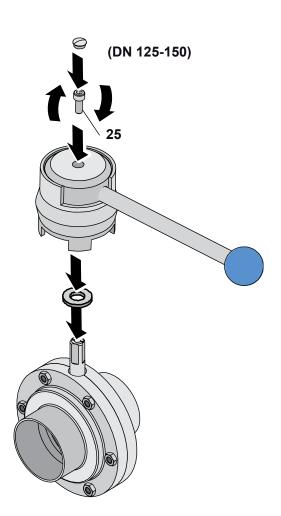




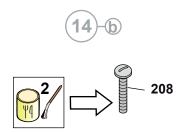


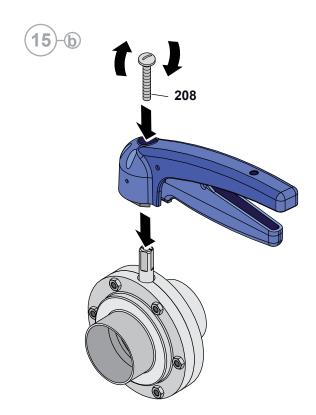


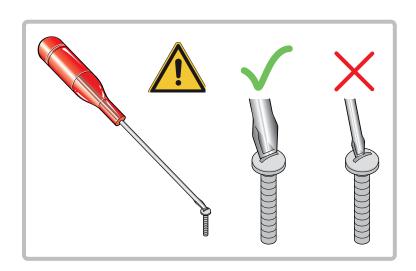






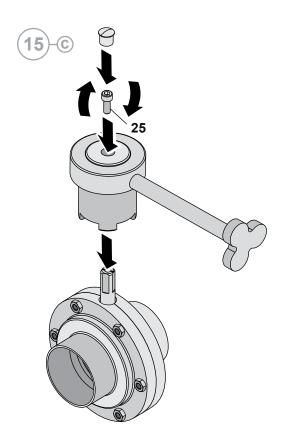










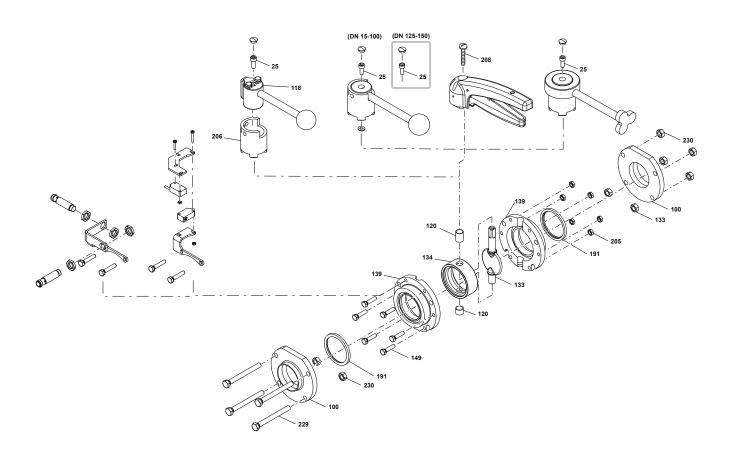




10.7 Manual butterfly valve VVF WAFER4

NO.	DESCRIPTION	
31	Spring	
100	Flange	
110	Screq	
118	Handle	
120	Guide Bush	
133	Butterfly	
134	Gasket	
139	Half body	
149	Screw	
191	Sealing ring	
205	Nut	
206	Handle positioning collar	
208	Screw	
210	Parallel pin	
229	Screw	
230	Nut	
239	Lever	

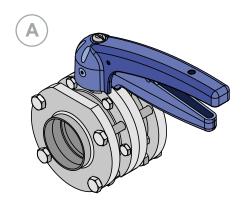


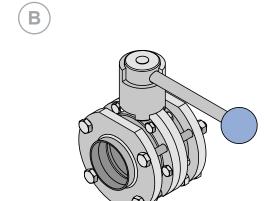


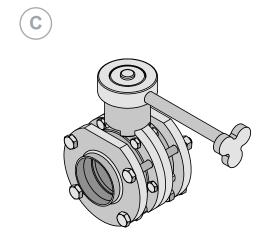
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10.8 Disassembly of the VVF wafer4



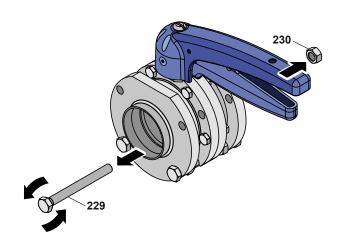


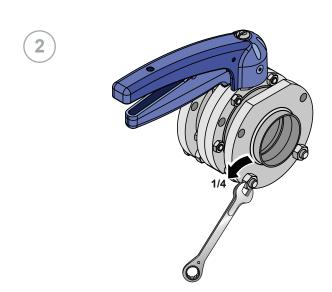


34



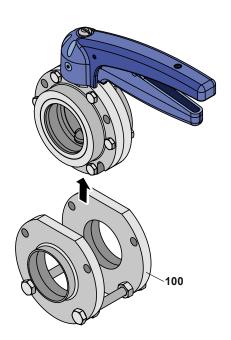




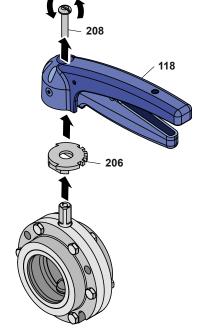


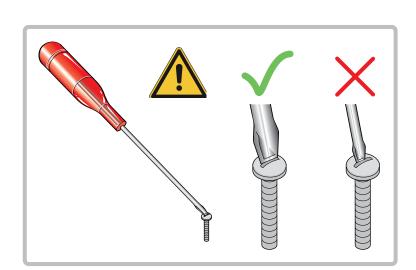




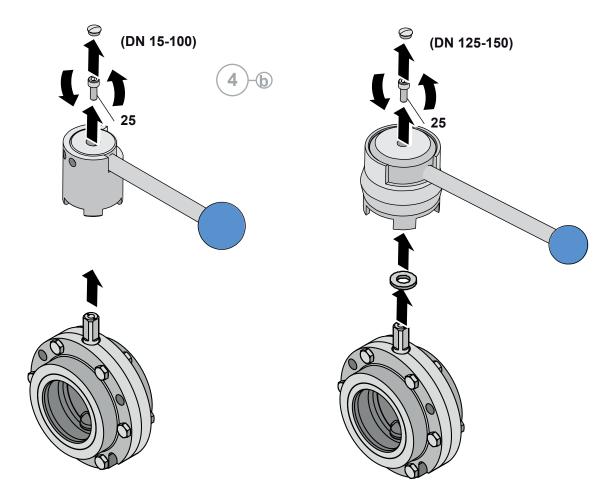


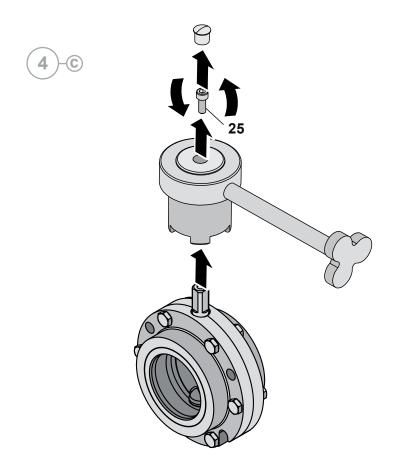




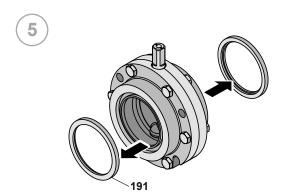


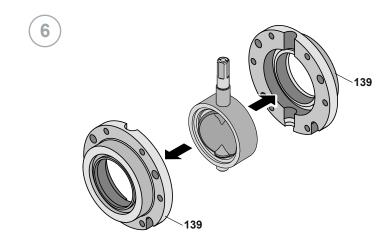


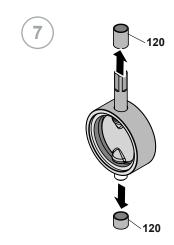










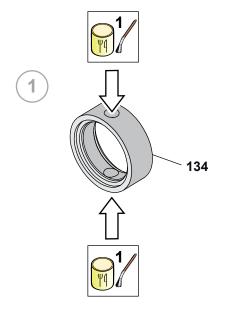


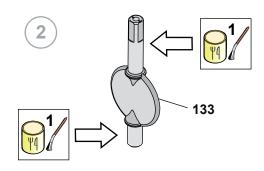


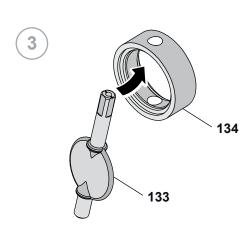
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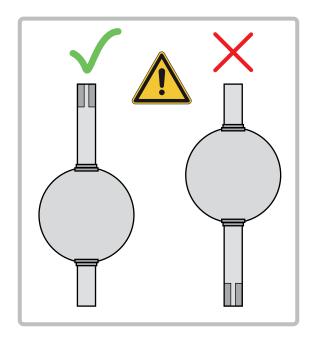


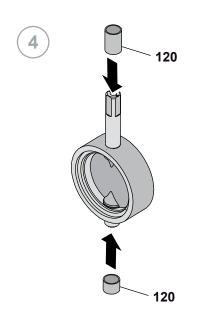
10.9 ASSEMBLY OF THE VVF WAFER4



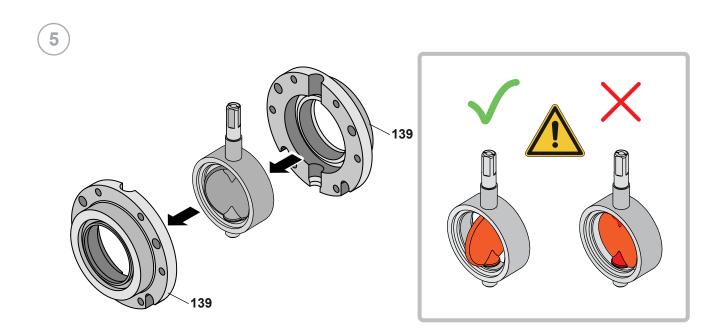


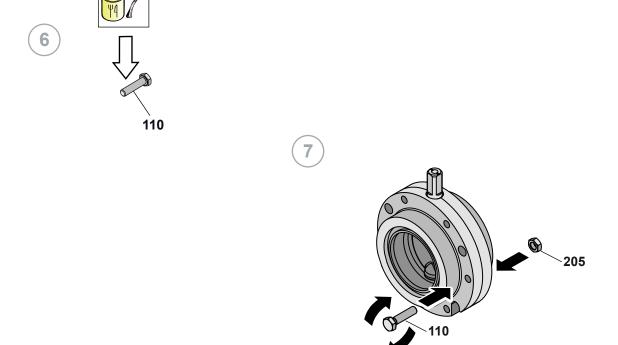






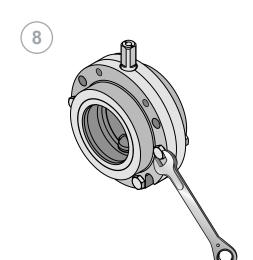


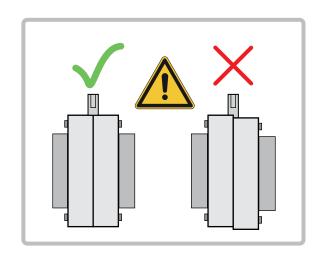


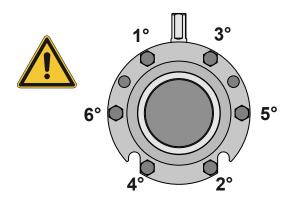


40



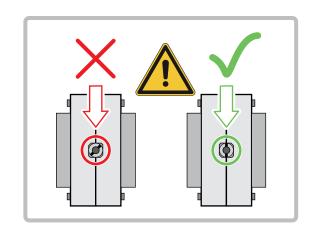






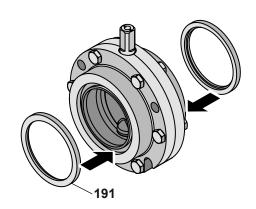


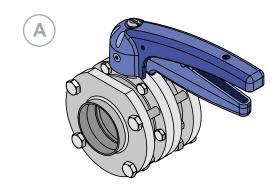


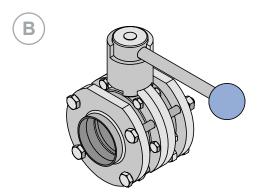


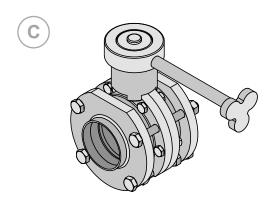




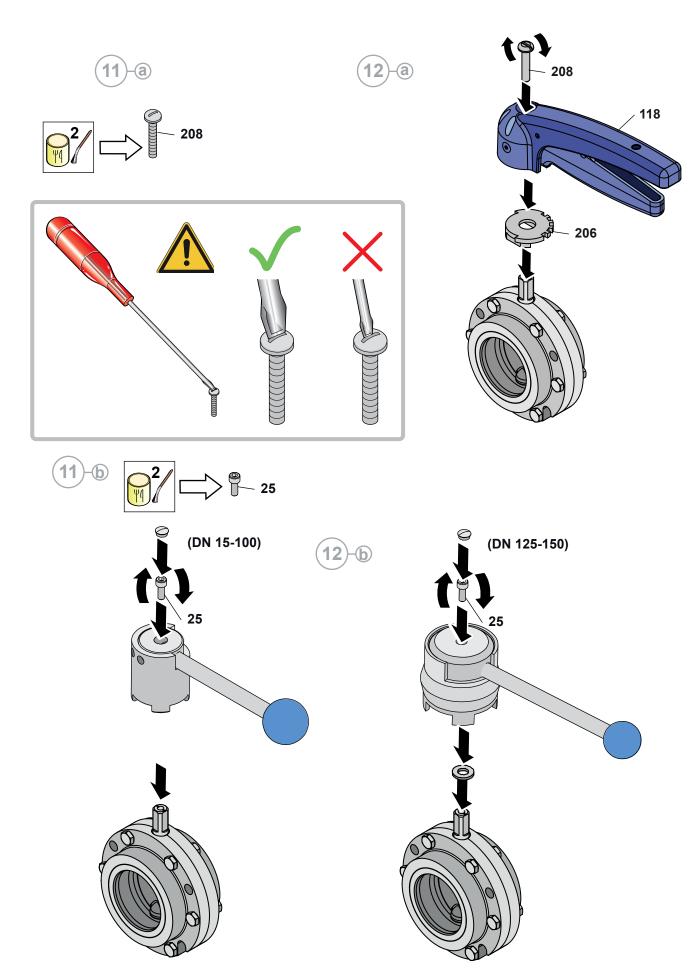






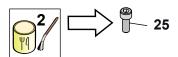




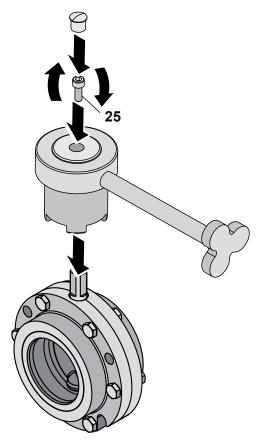




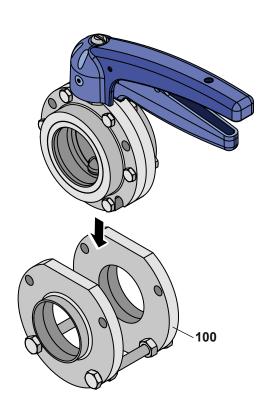




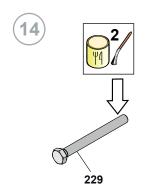


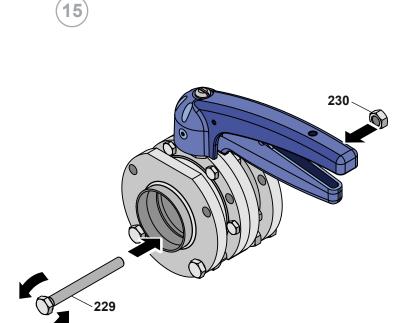




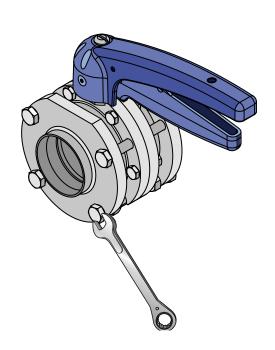












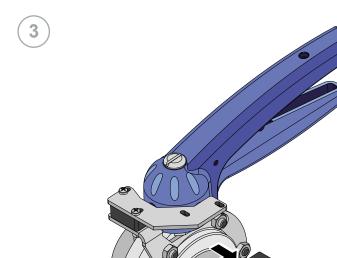


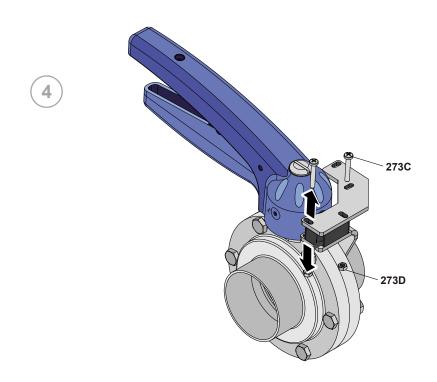
10.10 Disassembly of the VVF sensors





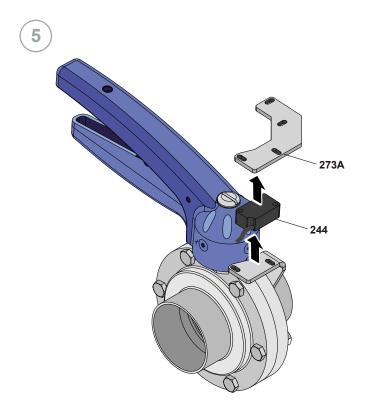


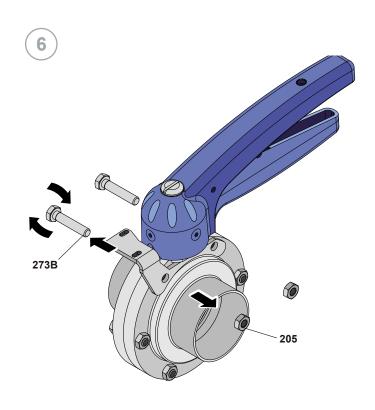




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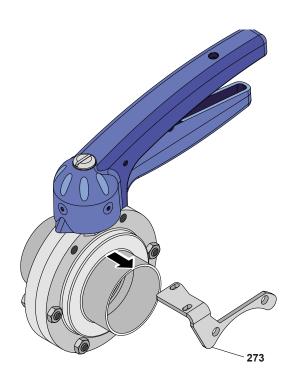








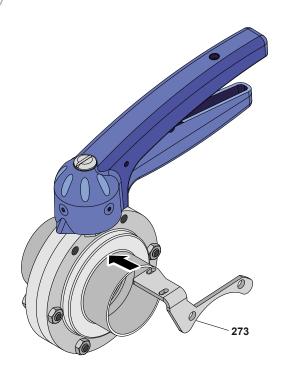


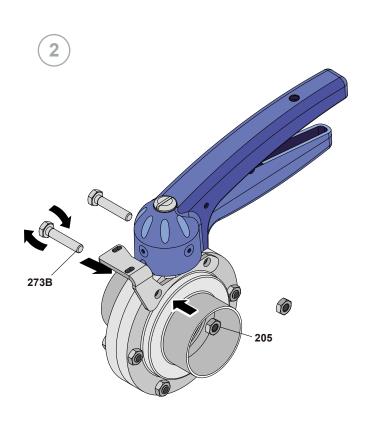




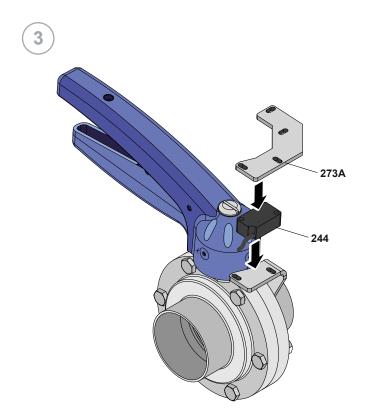
10.11 assembly of the VVF sensors







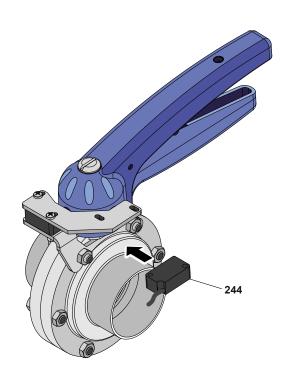








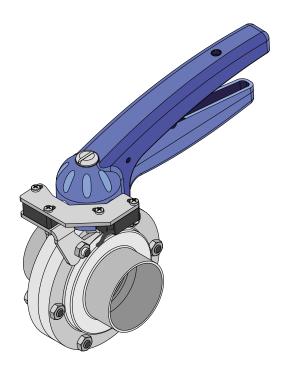






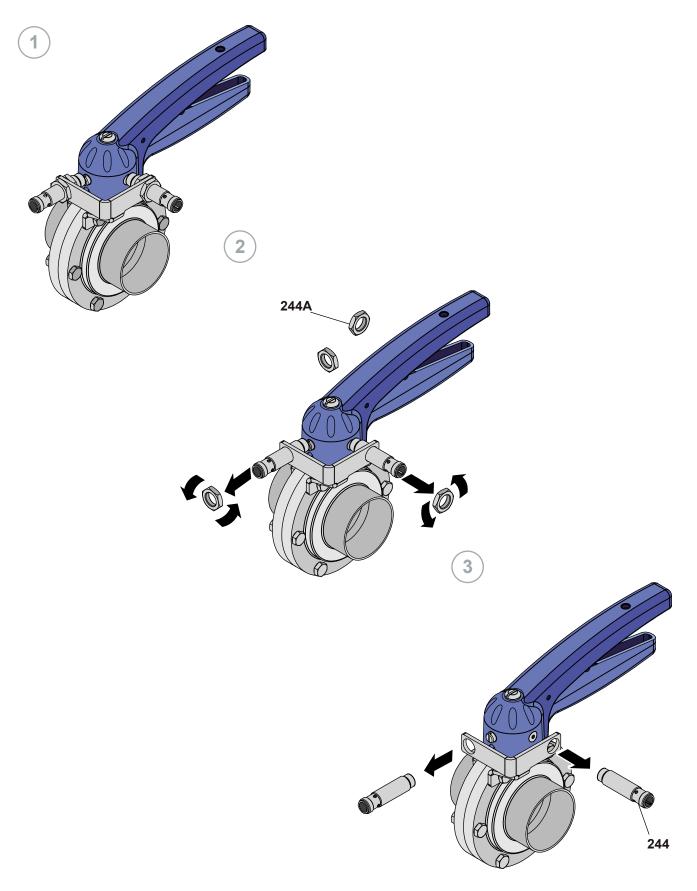




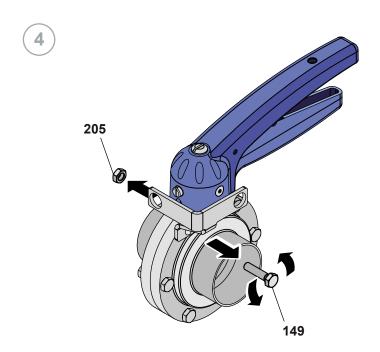


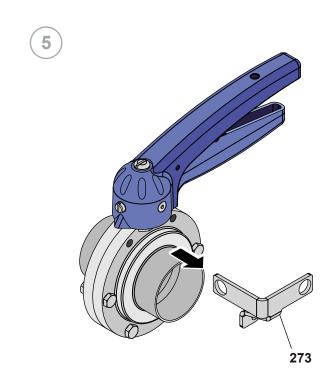


10.12 Disassembly of the VVF with cilindric sensors



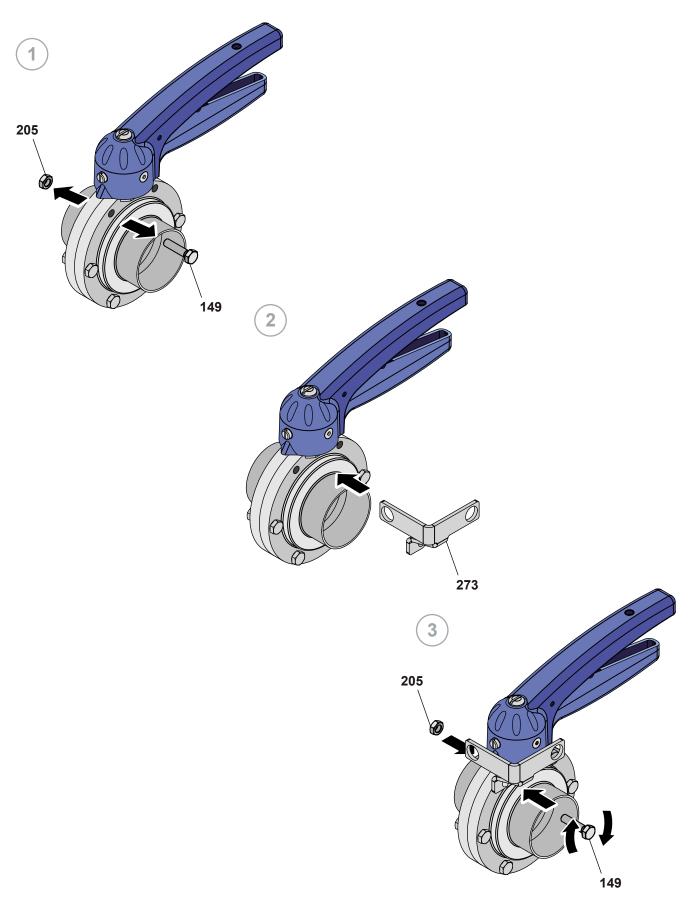




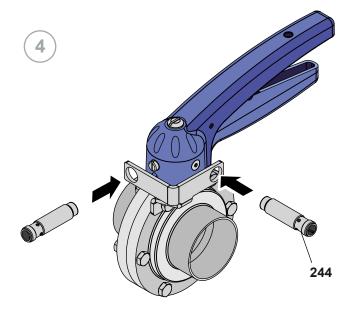


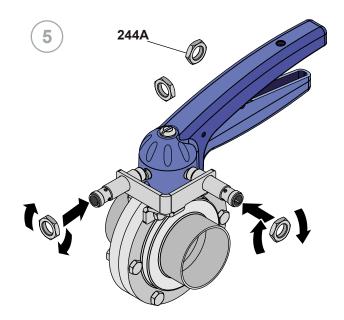


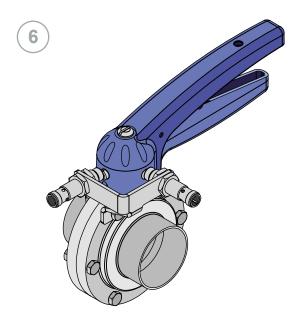
10.13 Assembly of the VVF With cylindrical sensors





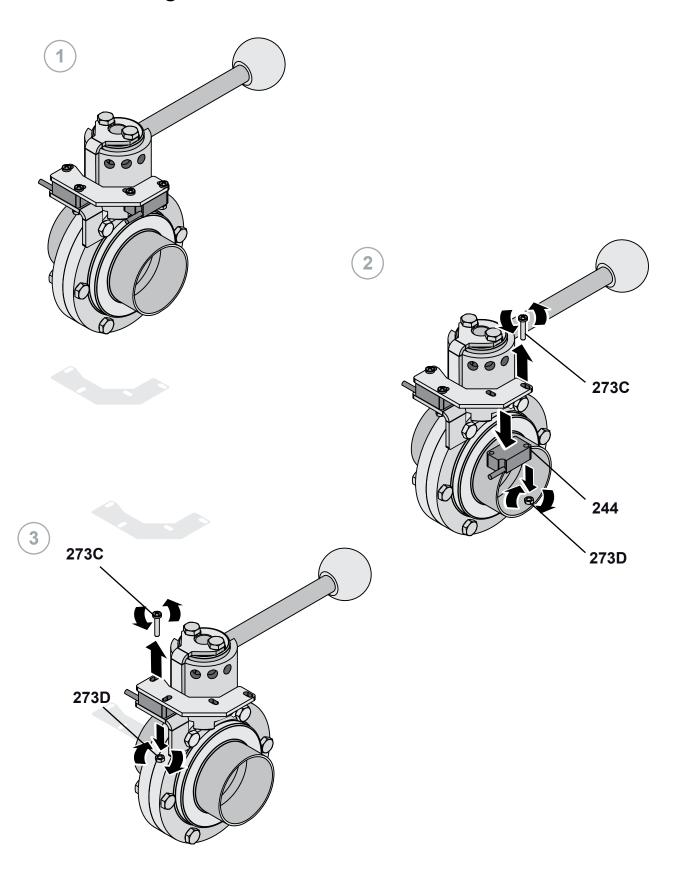




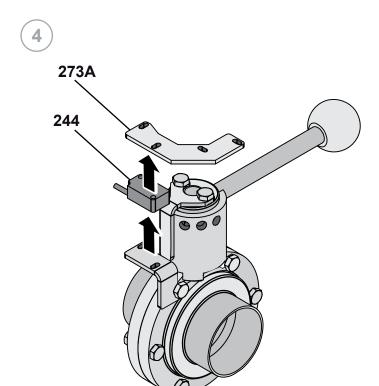


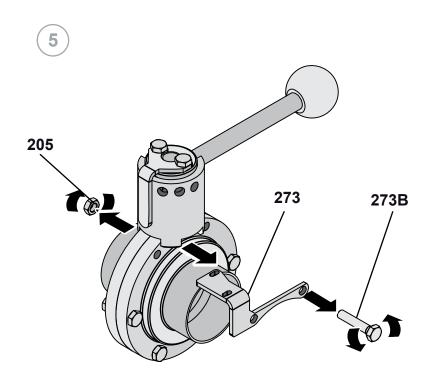


10.14 Disassembly of the vvf with stainless steel handle and rectangular sensors



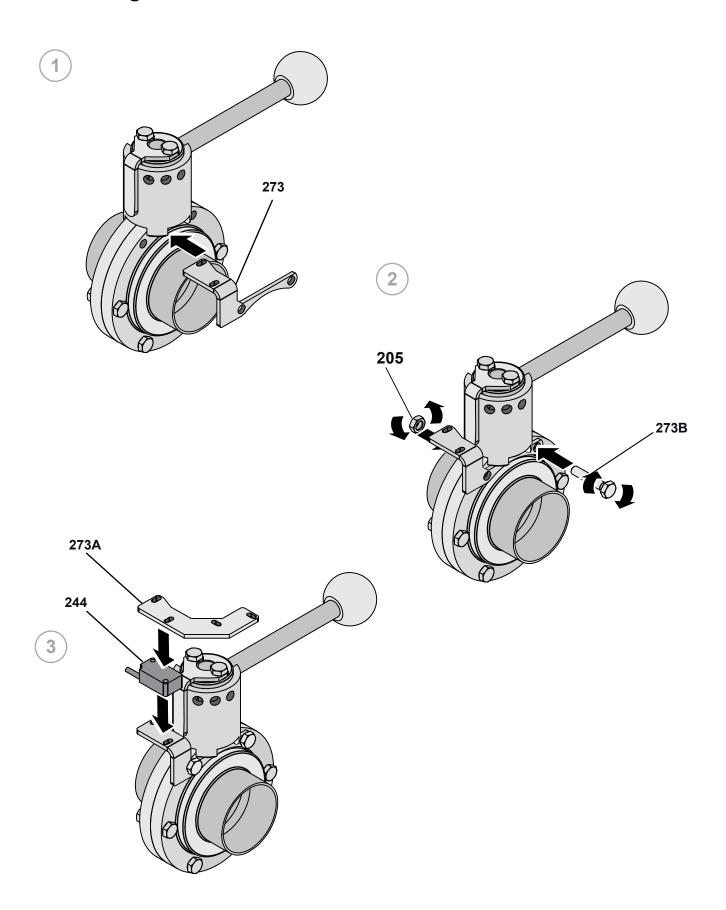




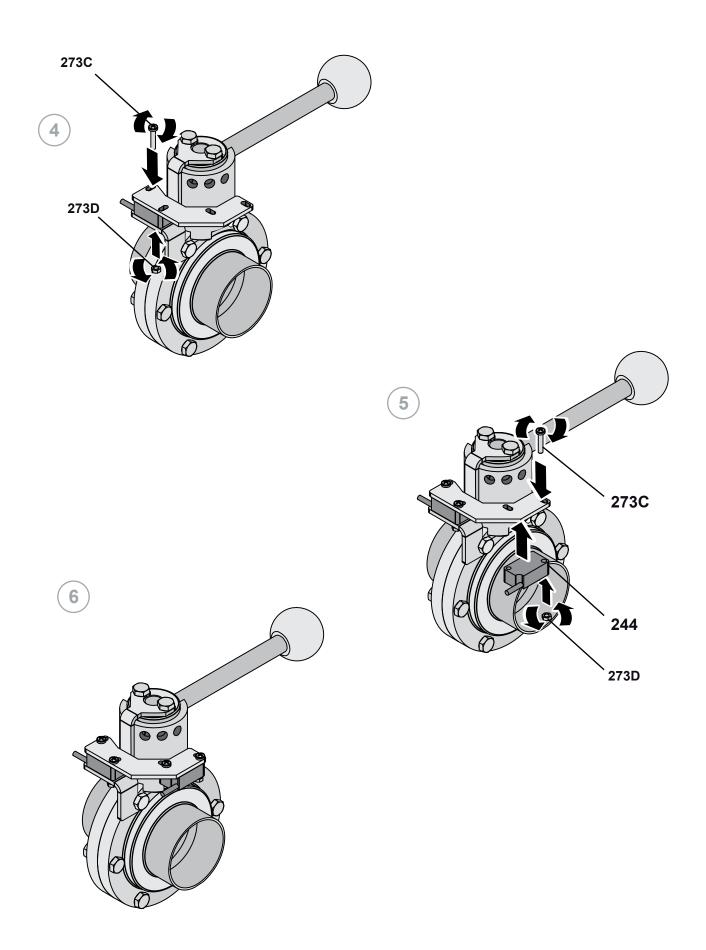




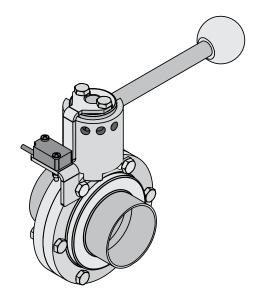
10.15 Assembly of the vvf with stainless steel handle and rectangular sensors



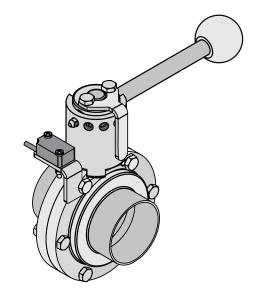




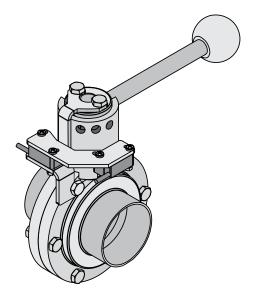




1 Sensor valve closed



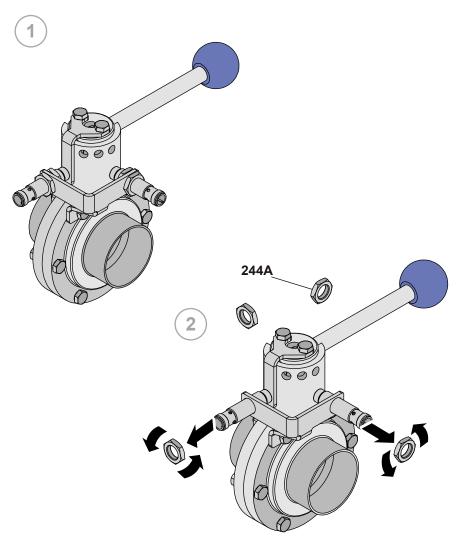
1 Sensor valve open

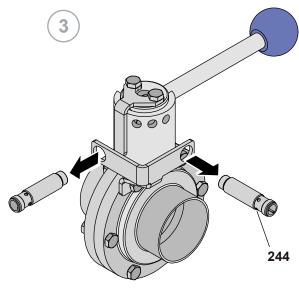


2 Sensors

BARDIANI

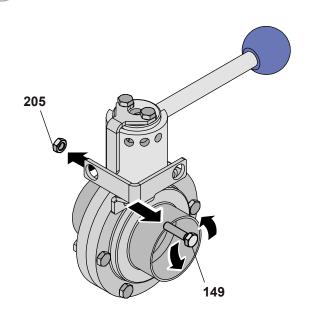
10.16 Disassembly of the vvf with stainless steel handle and cyilindrical sensors

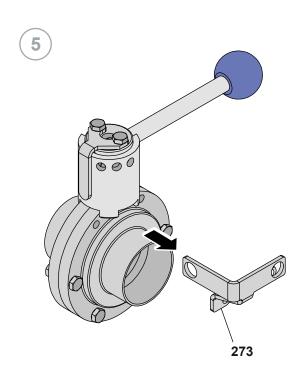






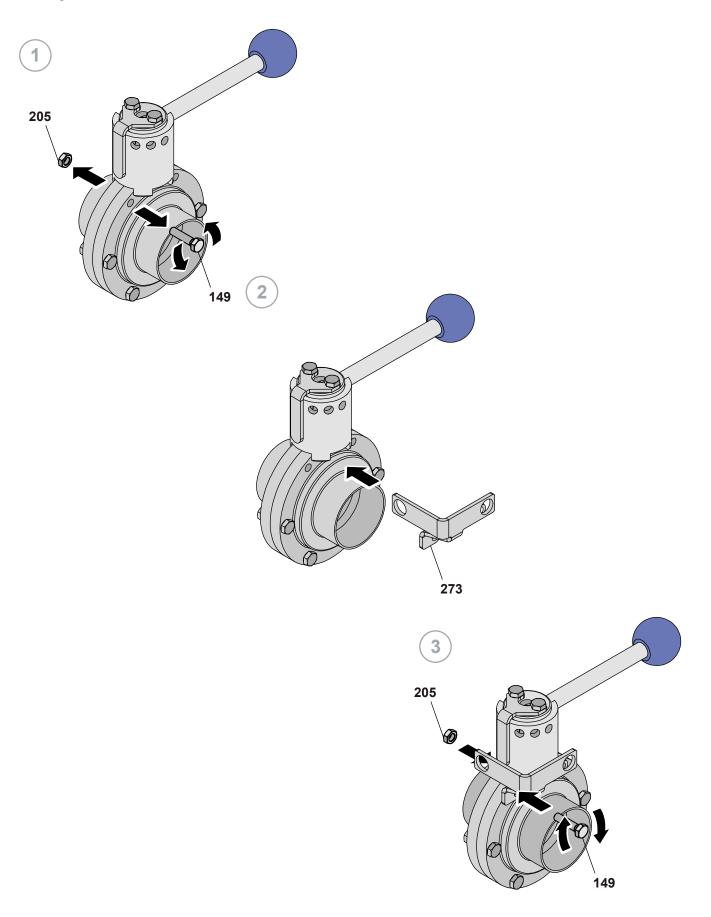




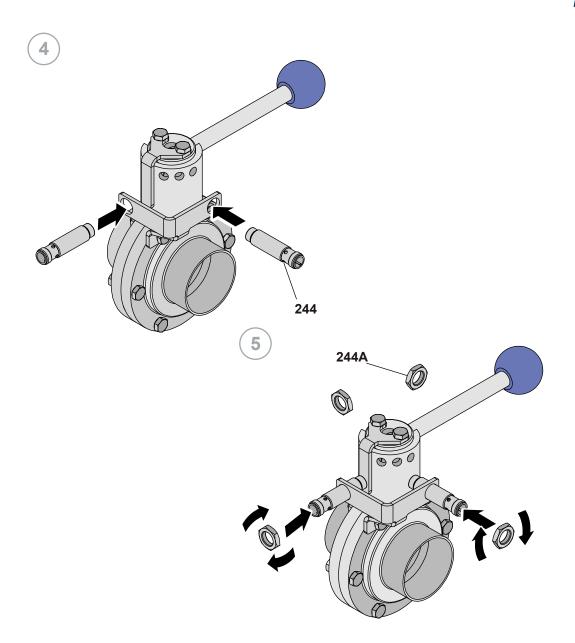


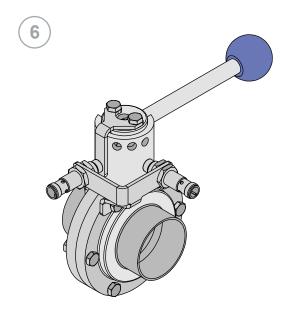


10.17 Assembly of the vvf with stainless steel handle and cyilindrical sensors









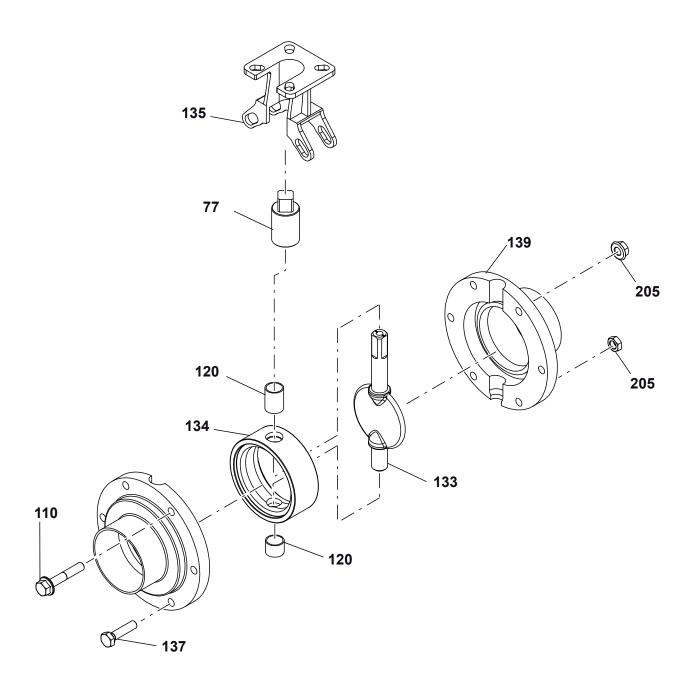


10.18 Butterfly Valve With F04 connection

N°	DESCRIPTION
77	Pin
110	Screw
120	Bush
133	Butterfly
134	Seal
137	Screw
139	Half body
205	Nut

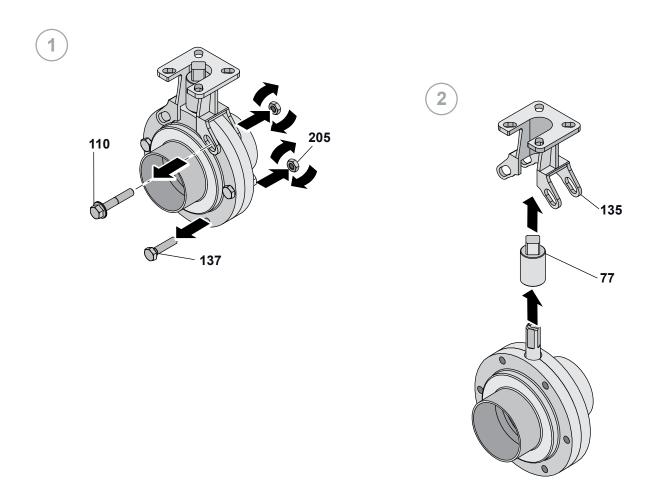
EN-IST-VVF-0325 **67**

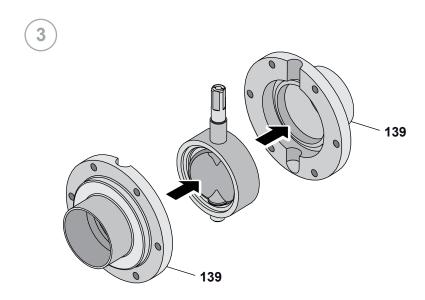






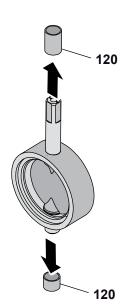
10.19 Disassembly of the VVF With F04 connection



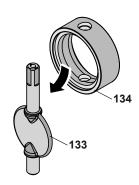






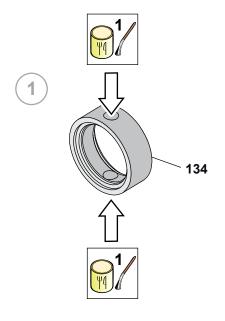


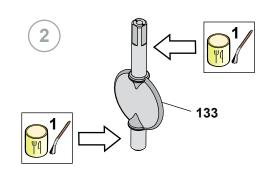


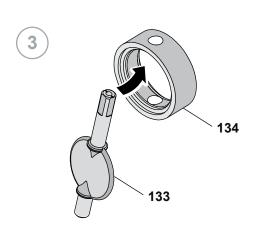


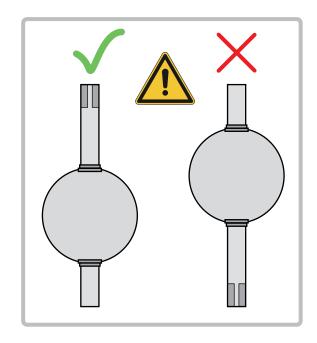


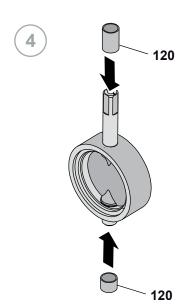
10.20 Assembly of the VVF With F04 connection



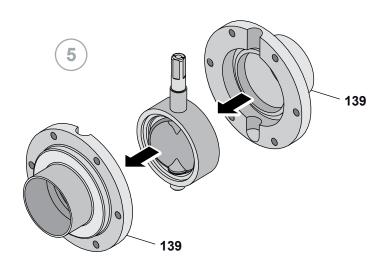


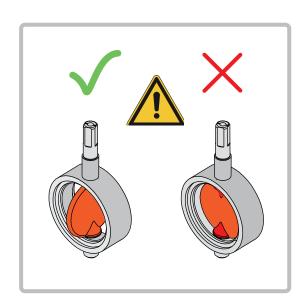


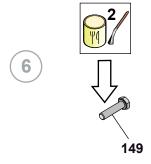




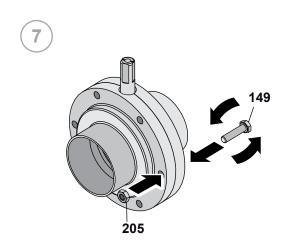


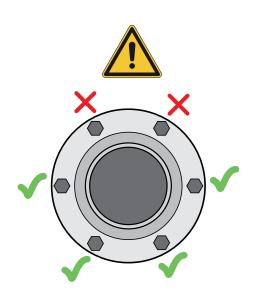


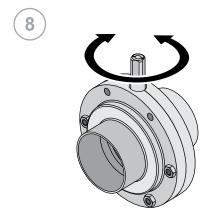


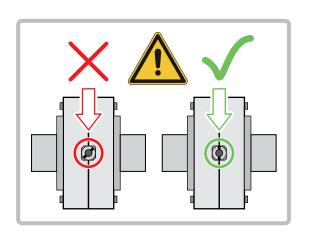




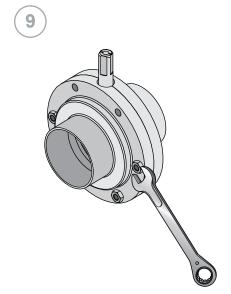


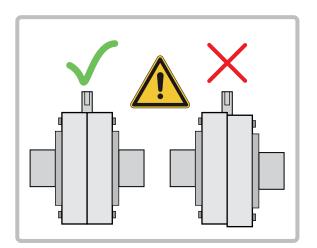




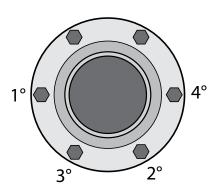






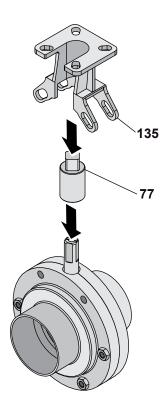




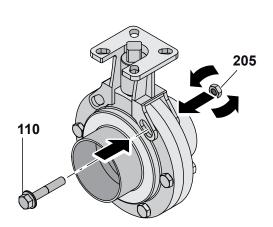






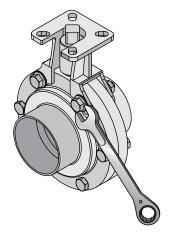




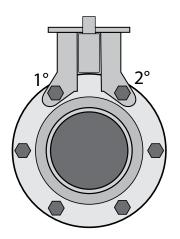














11 ANNEXES



GB - GB - PED Declaration of conformity - manual VVF from 32 inch- manual - A20-P-PRG-

EC DECLARATION OF CONFORMITY

(EU) 2014/68, Annex. VII

BARDIANI VALVOLE S.p.A.

Via G. di Vittorio 50/52 - 43045 Fornovo di Taro (Pr) - Italia

Declares

under its own responsibility that the pressure equipment:

Type:	Manual valves	
Model:	###############	
Serial number:		
Conformity evaluation procedure used:	Module A	
Year of construction:	2018	
Reference	#######################################	

complies with all relevant provisions of the following EC directives:

(EU) 2014/68 PED

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

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



Legal Representative

A20-P-PRG-GB Ed. 1. Rev. 0

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

EN-IST-VVF-0325 **77**





GB - GB - PED Declaration of conformity - with eletric component - manual - A10-P-

EC DECLARATION OF CONFORMITY

(EU) 2014/68, Annex. VII

BARDIANI VALVOLE S.p.A.

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

Declares

under its own responsibility that the pressure equipment:

Type:	MANUAL VALVES
Model:	#######################################
Serial number:	#######################################
Conformity evaluation procedure used:	Module A
Function:	Fluid handling
Year of construction:	2018
Reference	#######################################

complies with all relevant provisions of the following EC directives:

(EU) 2014/68 PED

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:

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

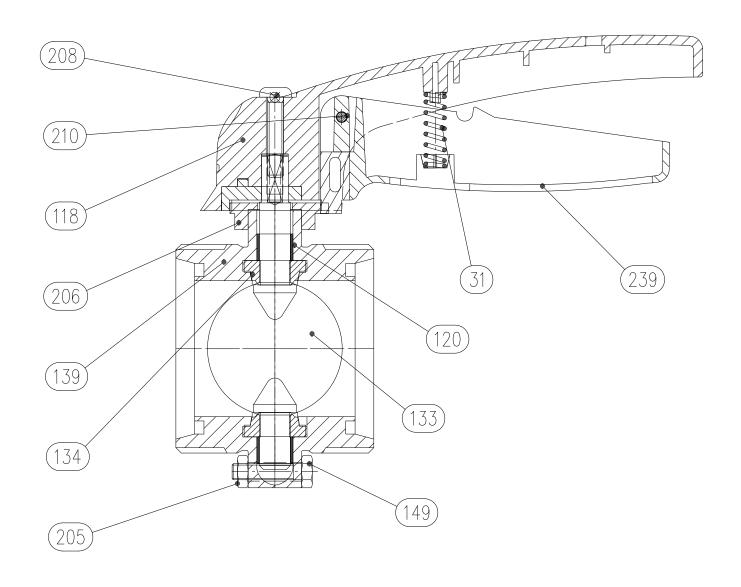
Legal representative

A10-P-PRG-GB Ed. 1. Rev. 0

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



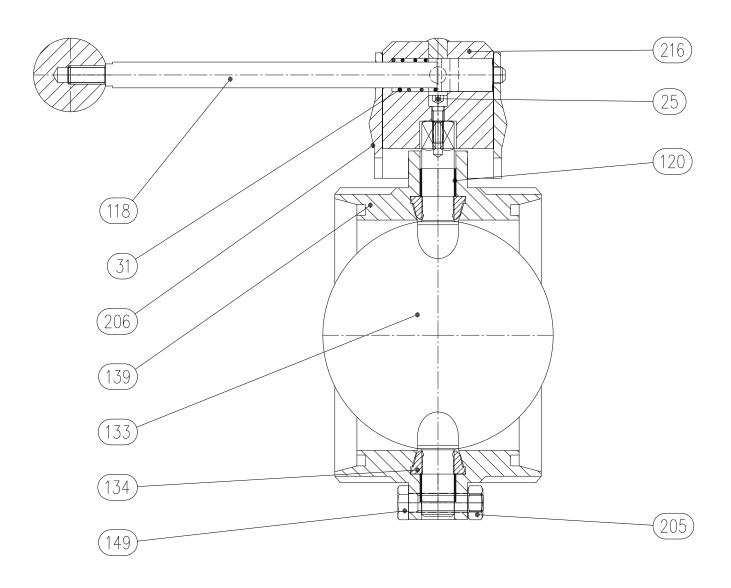
12 2D DIAGRAM VVF







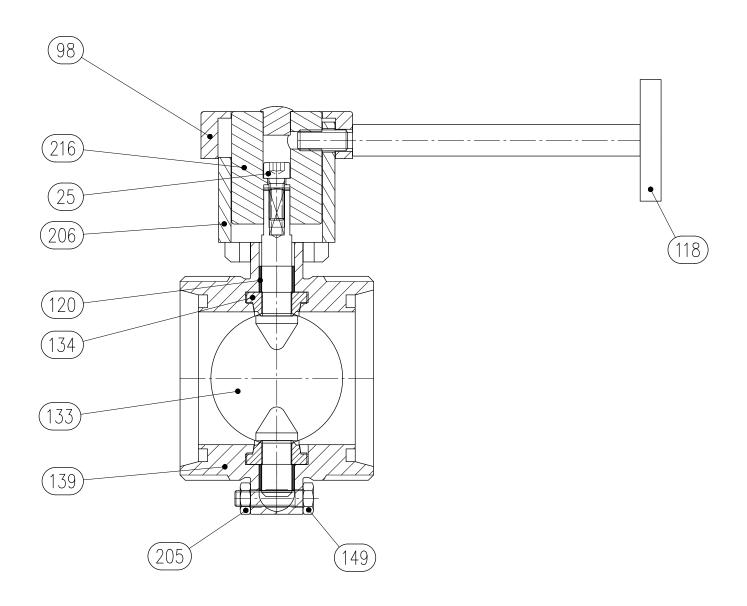
13 2D DIAGRAM VVF WITH IRON HANDLE







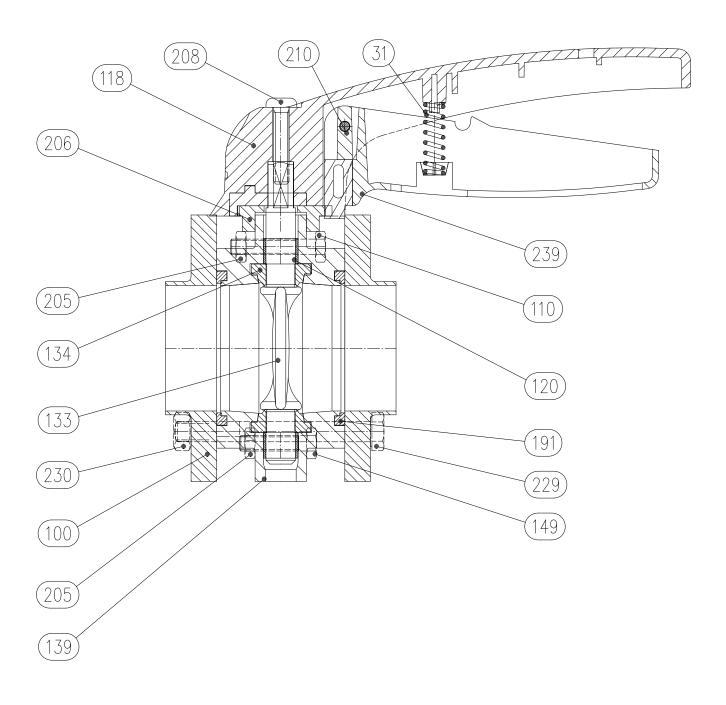
14 2D DIAGRAM VVF WITH MILLIMETRIC HANDLE







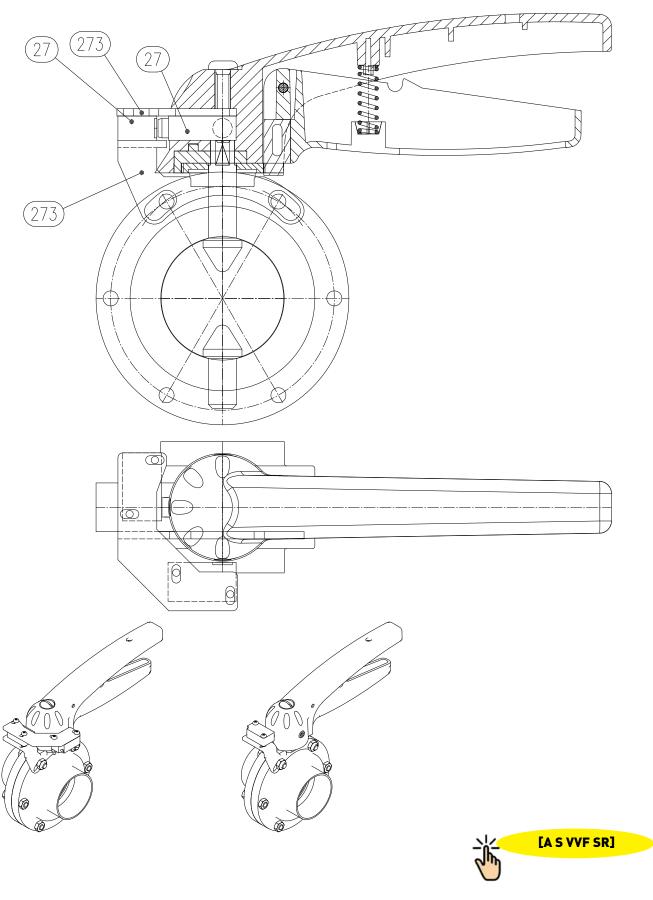
15 2D DIAGRAM VVF WAFER 4





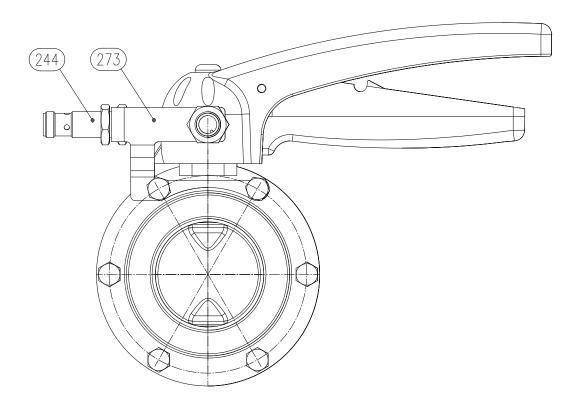


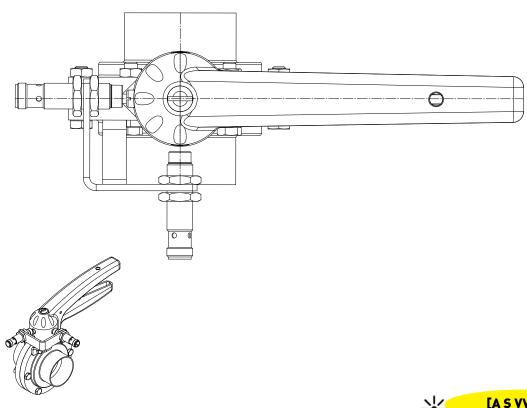
16 2D DIAGRAM VVF WITH 2 SENSORS





17 2D DIAGRAM VVF WITH 2 CILYNDRICAL SENSORS

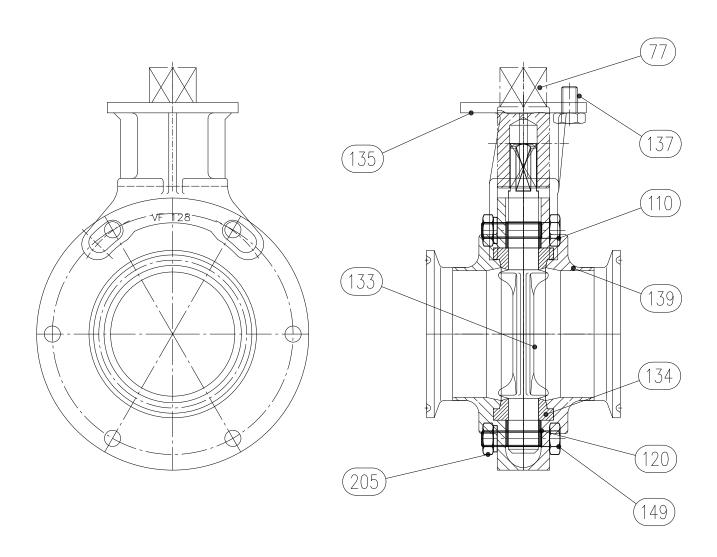


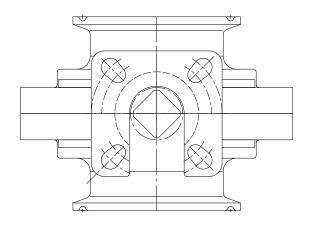


[A S VVF SC]



18 2D DIAGRAM VVF WITH SQARE CONNECTION

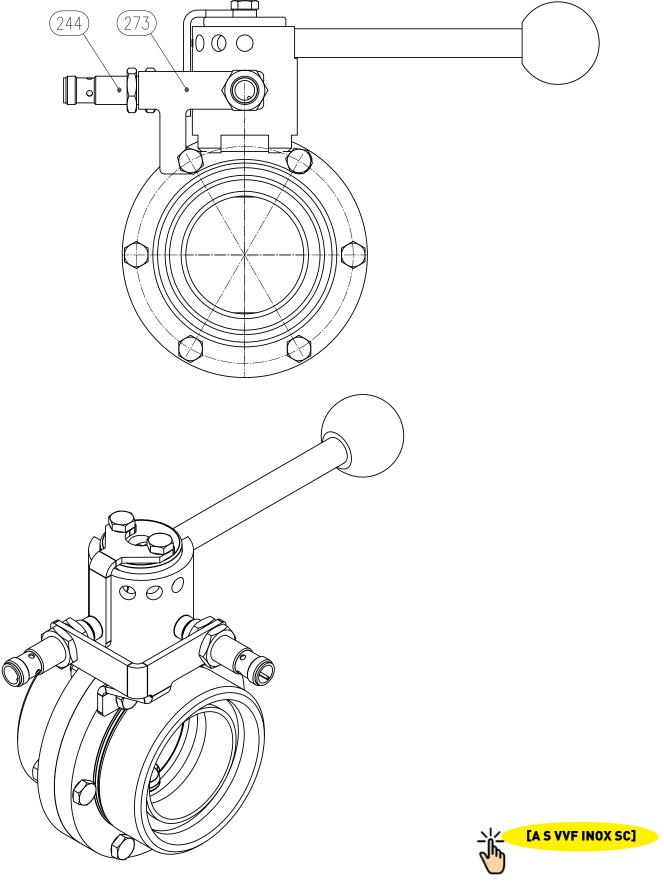






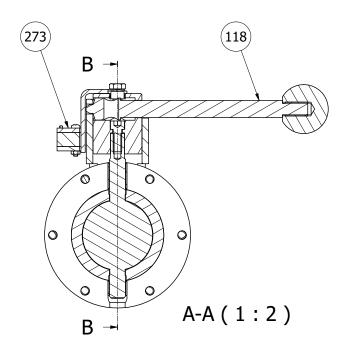


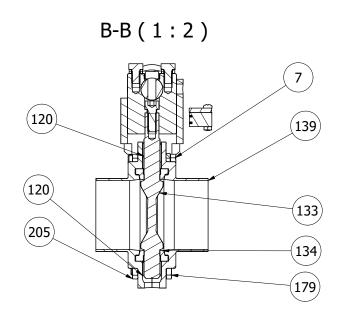
19 2D DIAGRAM VVF WITH IRON HANDLE AND CILYNDRICAL SENSORS

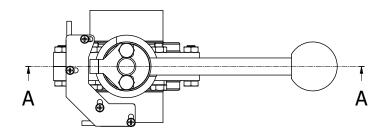




20 2D DIAGRAM VVF WITH IRON HANDLE AND RECTANGULAR CYLINDER











21 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 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 due to it/them being dropped and/or banged and/or dented and/or misused and/or tampering and/or breakage and/or accidents or in any event due to negligence and/or carelessness and/or neglect by the Buyer and in general for any causes not attributable 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.



22 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 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.
- 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".
- 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.
- 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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