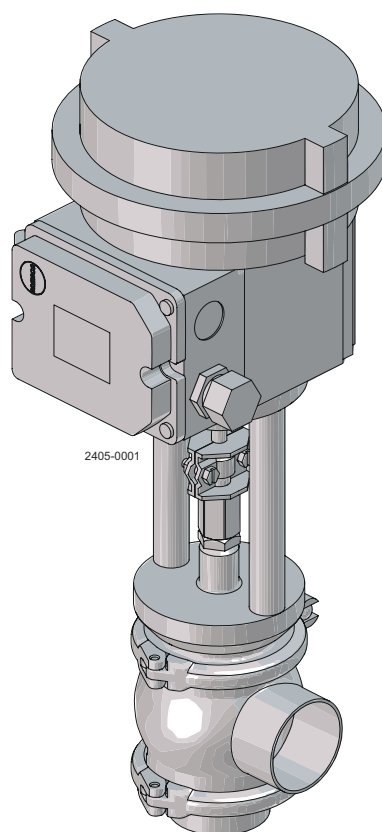


Alfa Laval Unique RV-P

Regulating valves



Lit. Code

200008010-2-EN-GB

Instruction Manual

Published by
Alfa Laval Kolding A/S
Albuen 31
DK-6000 Kolding, Denmark
+45 79 32 22 00

The original instructions are in English

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1 Declaration of Conformity

1.1 EU Declaration of Conformity

The designated company

Alfa Laval Kolding A/S, Albuen 31, DK-6000 Kolding, Denmark, +45 79 32 22 00

Company name, address and phone number

Hereby declare that

Valve

Designation

Unique RV-P

Type

is in conformity with the following directives with amendments:

- Machinery Directive 2006/42/EC

The person authorised to compile the technical file is the signer of this document.

Vice President BU Hygienic Fluid Handling

Head of Product Management

Title

Mikkel Nordkvist

Name

Kolding, Denmark

Place

2024-04-01

Date (YYYY-MM-DD)



Signature

DoC Revison_ 01_042024 / This Declaration of Conformity replaces Declaration of Conformity dated 2022-10-01



1.2 UK Declaration of Conformity

The designated company

Alfa Laval Kolding A/S, Albuen 31, DK-6000 Kolding, Denmark, +45 79 32 22 00

Company name, address and phone number

Hereby declare that

Valve

Designation

Unique RV-P

Type

is in conformity with the following directives with amendments:

- The Supply of Machinery (Safety) Regulations 2008

Signed on behalf of: Alfa Laval Kolding A/S.

Vice President BU Hygienic Fluid Handling
Head of Product Management

Title

Mikkel Nordkvist

Name

Kolding, Denmark

Place

2024-04-01

Date (YYYY-MM-DD)

Mikkel Nordkvist

Signature

DoC Revison_ 02_042024



2 Safety

Read this first



This Instruction Manual is designed for operators and service engineers working with the supplied Alfa Laval product.

Operators must read and understand the **Safety, Installation and Operating** instructions of the supplied Alfa Laval product before carrying out any work or before you put the supplied Alfa Laval product into service!

Not following the instructions can result in serious accidents.

This documentation describes the authorized way to use the supplied Alfa Laval product. Alfa Laval will take no responsibility for injury or damage if the equipment is used in any other way.

This Instruction Manual is designed to provide the user with the information to perform tasks safely for all phases in the lifetime of the supplied Alfa Laval product.

The operator shall always read the chapter **Safety** first. Hereafter the operator can skip to the relevant section for the task to be carried out or for the information needed.

Always read the chapter **Technical Data** thoroughly.

This is the complete Instruction Manual for the supplied Alfa Laval product.

NOTE

The illustrations and specifications in this Instruction Manual were effective at the date of printing. However, as continuous improvements are our policy, we reserve the right to alter or modify the Instruction Manual without prior notice or any obligation.

The English version of the Instruction Manual is the original manual. Alfa Laval cannot be held responsible for incorrect translations. In case of doubt, the English version applies.

2.1 Safety Signs

Mandatory Action Signs

	General mandatory action sign.
	Refer to instruction manual.
	Use eye protection - safety glasses.
	Use protective hand wear - safety gloves.
	Wear protective equipment - safety helmet.
	Use ear protection in noisy environments - noise protector.
	Wear protective equipment - safety shoes.

Warning Signs

	General warning.
	Corrosive substance.
	Hot surface and burning danger.
	Cutting danger.
	Transportation with forklift truck or other industrial vehicles if heavy.

	Danger of injury (lasermarked on the actuator). Do not attempt to disassemble the actuator due to spring under load danger! (The lock wire opening is blocked).
	Danger of injury (lasermarked on the actuator). Do not attempt to cut open actuator due to spring under load danger! (The lock wire opening is blocked).
	Danger of injury (label marked on actuator). Do not attempt to cut the actuator open due to spring under load (the lock wire opening is locked).

2.2 Safety precautions

All warnings in the manual are summarised on this page. Pay special attention to the instructions below so that severe personal injury and/or damage to the Supplied Alfa Laval Product is avoided.

General

	To prevent unexpected start and contact with electrical live and moving parts. Always disconnect the power supply safely: • The power supply disconnecting device must be disconnected (in off position) and locked.
--	---

Transportation and Lifting

	Never lift or elevate in any way other than described in this manual.
	Always use the original packaging or similar during transportation.
	Always use suitable transport device ie. forklift or pallet lifter.
	Always ensure that personnel must have experience with lifting operations.
	Always ensure that all connections are disconnected before attempting to remove the valve from the installation.
	Always ensure that no leakage of lubricants can occur.
	Always drain liquid out of the valves before transportation.
	Always ensure sufficient fixing of the valve during transportation - if specially designed packaging material is available , it must be used.
	Always ensure that compressed air is released.
	Always use predesigned lifting points if defined. Ensure that the lifting equipment is suitable for the supplied Alfa Laval product.
	Always ensure that the unit is securely fixed during transportation.
	Always ensure the lifting point to be in line with center of gravity. Adjust lifting point if necessary.
	Always use appropriate lifting equipment for heavy parts when relevant. Use lifting logs when available.
	Always keep an eye on the load and stay clear during the lifting operation.

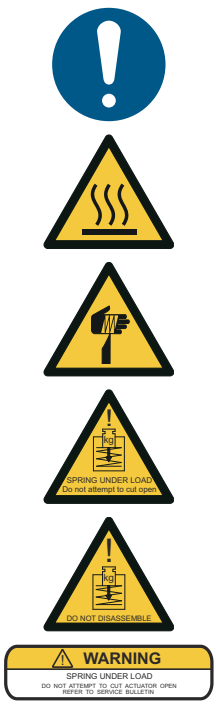
Installation

	If the local safety regulations prescribe that the installation has to be inspected and approved by responsible authorities before the valve is put into service, consult with such authorities before installing the equipment and have the projected installation approved by them.
	Always ensure all pipe lines (product, air, and water) are depressurized and emptied before installation, inspection, assembling and disassembling.
	Always assemble the valve completely before start and make sure everything is in place and properly tightened.
	Always release compressed air after use.
	Never work on the valve or touch moving parts if the actuator is supplied with compressed air.
	Never dismantle or touch the valve or pipelines when processing hot liquids or when sterilising.
	Never dismantle the valve with valve and pipelines under pressure.
	Do NOT attempt to disassemble the actuator due to spring under load danger!
	Do NOT attempt to cut the actuator open due to spring under load.

Operation

	Necessary precautions must be taken if leakage occurs as this can lead to hazardous situations.
	Never operate the valve unless it is properly mounted or installed.
	Never work on the valve or touch moving parts if the actuator is supplied with compressed air.
	Never dismantle or touch the valve or pipelines when processing hot liquids or when sterilising.
	Never dismantle the valve with valve and pipelines under pressure.
	Always release compressed air after use.
	Always rinse well with clean water after cleaning.
	Always handle lye and acid with great care.
	Always follow the instructions in the safety data sheets from the suppliers of cleaning agents, detergents, oils etc.

Maintenance

	In order to optimise the operation of the supplied Alfa Laval product and to minimize the down time due repair activities, the maintenance should consist of: • Inspection and maintenance of the supplied Alfa Laval product: strictly follow the technical documentation • Preventive maintenance: visual inspection of the supplied Alfa Laval product followed by necessary adjustments and planned periodic replacement of wear and tear parts • Repairs: unscheduled break-down of a component, often causing the system to stop. Damaged components shall be replaced or repaired • Stock of Alfa Laval genuine spare parts: Alfa Laval recommend keeping a stock of genuine spare parts facilitating preventive maintenance and reducing down time in case of unplanned break-downs Always use Alfa Laval genuine spare parts. Always release compressed air after use. Never work on the valve or touch moving parts if the actuator is supplied with compressed air. Never dismantle or touch the valve or pipelines when processing hot liquids or when sterilising. Never service the valve with valve and pipelines under pressure. Never pressurize the valve/actuator when the valve is serviced unless specifically prescribed. Do NOT attempt to disassemble the actuator due to spring under load danger! Do NOT attempt to cut the actuator open due to spring under load.
--	---

Storage

	Alfa Laval recommend: • Store the supplied Alfa Laval product as supplied in original packaging • Port opening(s) should be protected against any ingress • Bare steel (not stainless) should be lightly oiled/greased • Store in a clean, dry place without direct sunlight or UV light • Temperature range -5 °C to 40 °C (23 °F - 104 °F) • Relative humidity less than 60% • No exposure to corrosive substances (including contained air)
---	--

Noise

	• One metre away from and 1.6 metres above the exhaust, the noise level of a valve actuator will be approximately 77db (A) without noise damper and approximately 72 db (A) with damper - measured at 7 bar air-pressure
---	--

Hazards

	Burn Hazard Lubrication oil, machine parts and various machine surfaces can be hot and cause burns. Wear protective gloves
	Corrosive Hazard - Always handle cleaning liquids, lye and acid with great care and in accordance with separate instructions for those fluids - When using chemical cleaning agents and lubricants, make sure you follow the general rules and suppliers recommendation regarding ventilation, personnel protection etc.
	Cut Hazard - Sharp edges, especially on bowl discs and threads, can cause cuts. Wear protective gloves - Avoid placing hands into valve orifice pinch points

Health Hazard

	Danger of injury: (an extra yellow label marked on the actuator from June 2016). Do NOT attempt to cut the actuator open due to spring under load. (The lock wire opening is locked). Danger of injury (laser marked on the actuator). Do NOT attempt to disassemble the actuator due to spring under load danger! (The lock wire opening is locked). Danger of injury (label marked on actuator). Do NOT attempt to cut the actuator open due to spring under load. (The lock wire opening is locked).
---	---

Safety check



A visual inspection of any protective device (shield, guard, cover or other) on the supplied Alfa Laval product shall be carried out at least every 12 months. If the protective device is lost or damaged, especially when this leads to deterioration of safety performance, it shall be replaced. The fixing of the protective device should only be replaced with fixings of the same or an equivalent type.

Inspection acceptance criteria:

- It should not be possible to reach moving parts originally protected by a protective device
- The protective device must be securely mounted
- Ensure that screws for the protective device are securely tightened

Procedure in case of non-acceptance:

- Fix and/or replace the protective device

2.3 Warning Signs in Text

Pay attention to the safety instructions in this Instruction Manual.

Below are definitions of the four grades of warning signs used in the text where there is a risk for injury to personnel or damage to the supplied Alfa Laval product.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate damage to the supplied Alfa Laval product.



Indicates important information to simplify or clarify procedures.

2.4 Requirements of Personnel

Operators

The operators shall read and understand this Instruction Manual.

Maintenance personnel

The maintenance personnel shall read and understand this Instruction Manual. The maintenance personnel or technicians shall be skilled within the field required to carry out the maintenance work safely.

Trainees

Trainees can perform tasks under the supervision of an experienced employee.

People in general

The public shall not have access to the supplied Alfa Laval product.

In some cases, specially skilled personnel may need to be hired (i.e. electricians, welders). In some cases the personnel has to be certified according to local regulations with experience of similar types of work.

2.5 Recycling Information

Unpacking

Packing material may consist of wood, plastics, cardboard boxes and in some cases metal straps.



- Wood and cardboard boxes can be reused, recycled or used for energy recovery
- Plastics should be recycled or burnt at a licensed waste incineration plant
- Metal straps should be sent for material recycling



If the actuator is marked with one of the below warnings, do **NOT** attempt to disassemble it.

The spring inside is under load — any type of breakage of the actuator can lead to severe injury or even death!



Maintenance

During maintenance, oil (if used) and wear parts in the supplied Alfa Laval product should be replaced.

- Oil and all non-metal wear parts must be disposed of in accordance with local regulations
- Rubber and plastics should be burnt at a licensed waste incineration plant. If not available they should be disposed of in accordance with local regulations
- Bearings and other metal parts should be sent to a licensed handler for material recycling
- Seal rings and friction linings should be disposed of to a licensed land fill site. Check your local regulations
- All metal parts should be sent for material recycling
- Worn out or defected electronic parts should be sent to a licensed handler for material recycling

Scrapping

At end of use, the equipment must be recycled in accordance with the relevant local regulations. Besides the equipment itself, any hazardous residues from the process liquid must be considered and dealt with in a proper manner. When in doubt, or in the absence of local regulations, please contact your local Alfa Laval sales company.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website.

Please visit www.alfalaval.com to access the information directly.

3 Introduction

The Alfa Laval Unique RV-P Regulating Valve is an automatic hygienic regulating valve with an electro-pneumatic actuator for use in applications that require precision control of flow as well as pressure, temperature, and tank fluid levels.

3.1 Working principles

The Product is remote-controlled by an electrical signal and compressed air. The IP-converter, which is an integrated part of the actuator, converts the electrical signal to a pneumatic signal. This signal conversion is extremely insensitive to pressure shocks. The pneumatic signal is transmitted to the integrated positioner which operates by means of the force-balance principle, ensuring that the position of the actuator piston is directly proportional to the input signal.

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4 Installation

4.1 Unpacking/delivery

NOTE

This instruction manual is part of the delivery. Study the instructions carefully.

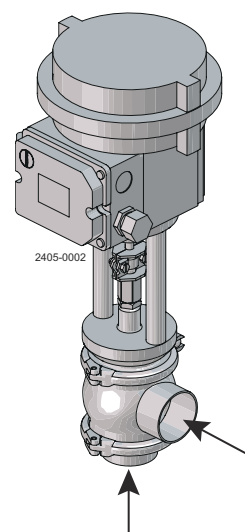
The valve is assembled before delivery.

CAUTION

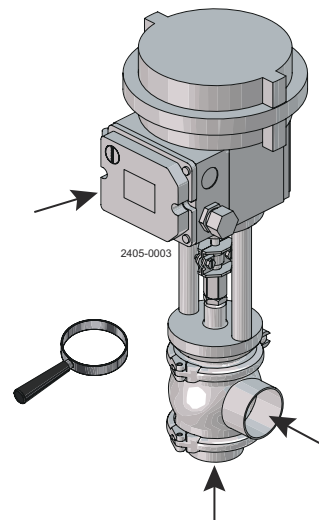
Alfa Laval cannot be held responsible for incorrect unpacking.

Check the delivery for:

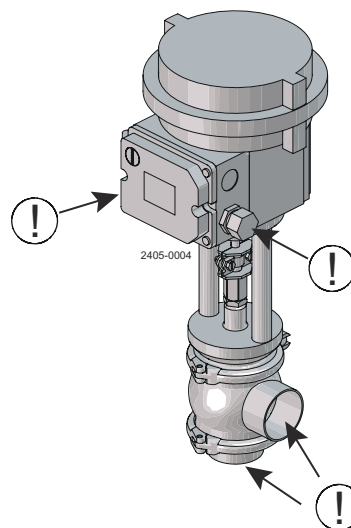
1. Complete valve
 2. Delivery note
 3. Instruction manual
-
- 1 Remove possible packing materials from the valve/valve parts.



- 2 Inspect the valve for visible transport damage.



- 3 Avoid damaging the air connection, the electrical connection and the valve ports.



4.2 General installation

NOTE

Study the instructions carefully and pay special attention to the warnings!

The valve has welding ends as standard but can also be supplied with fittings.

Always read the technical data thoroughly. See [Technical Data](#) on page 37.

CAUTION

Alfa Laval cannot be held responsible for incorrect installation.

WARNING

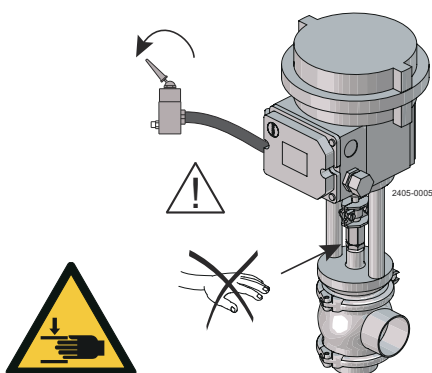
Always release compressed air after use.



DANGER

Moving parts!

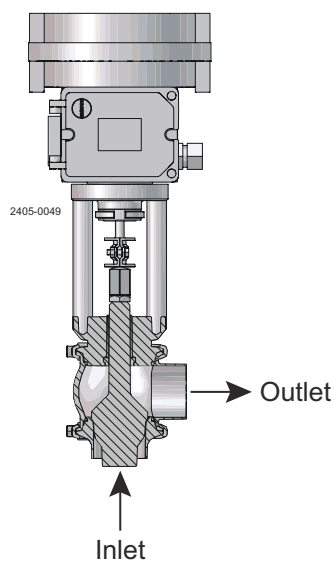
Never touch moving parts if the actuator is supplied with compressed air.



Avoid water hammer!

To avoid water hammer, it is recommended to install the valve so that the flow is against the closing direction.

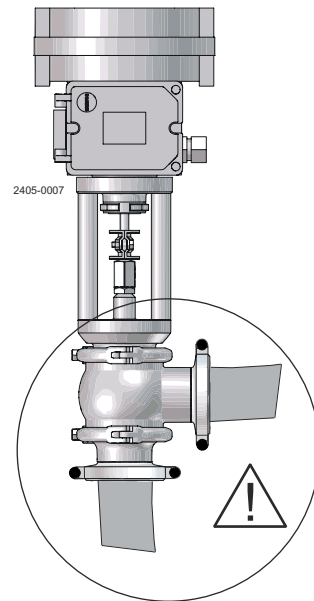
Shock in the actuator must **never** occur.



Avoid stressing the valve.

Pay special attention to:

- Vibrations
- Thermal expansion of the pipelines
- Excessive welding
- Overloading of the pipelines



4.3 Welding

! NOTE

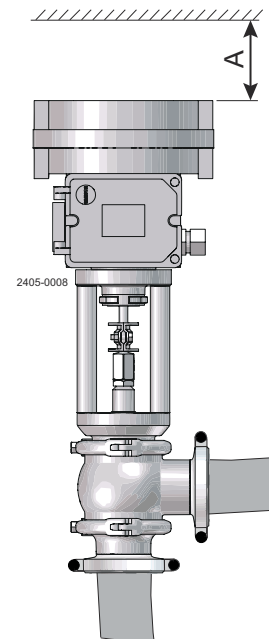
Study the instructions carefully.

Check the valve for smooth operation after welding.

Always weld the valve body into the system when it is disassembled from the valve.

Maintain the minimum clearance (A) so that the actuator can be removed.

Valve size	A (mm)
38 mm/DN40	100
51 mm/DN50	105
63.5 mm/DN65	130
76 mm/DN80	145
101.6 mm/DN100	180

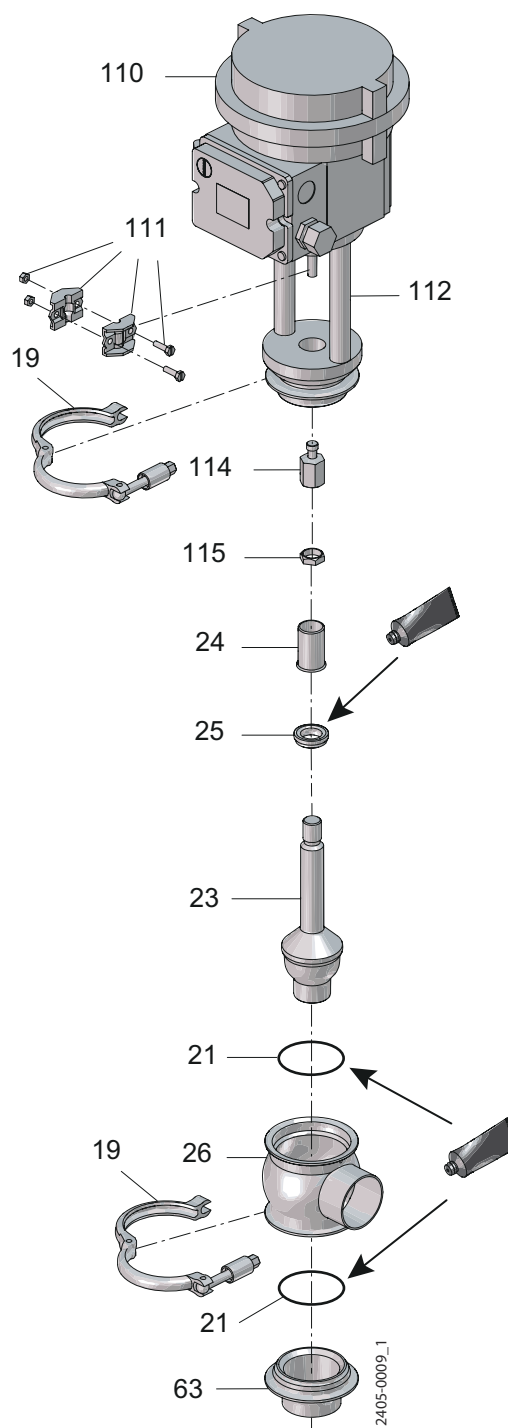


Assemble the valve in accordance with the steps in [Valve assembly](#) on page 36.

Standard model

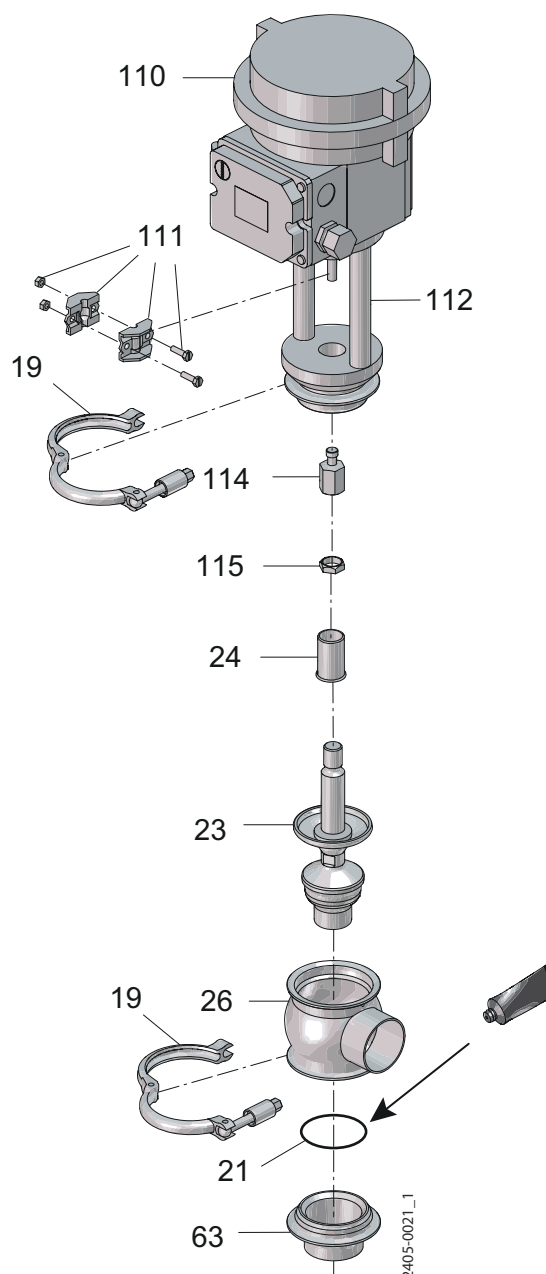
1. Lubricate O-ring (21) and lip seal (25) with Alfa Laval Lubricant.
2. Fit seat (63) and O-ring (21) in the valve body (26).
3. Fit and tighten lower clamp (19).
4. Fit O-ring (21) and plug (23) in valve body (26).
5. Fit bushing (24) and lip seal (25) in the bonnet (112).
6. Mount the actuator (110) and bonnet (112) together with the valve parts in the valve body (26).
7. Fit and tighten upper clamp (19).
8. Fit and tighten valve plug adjuster (114) and nut (115) to the plug (23).
9. Fit and tighten the clamp fittings (111).

The items refer to the [Parts List and Exploded View](#) on page 41.



Aseptic model

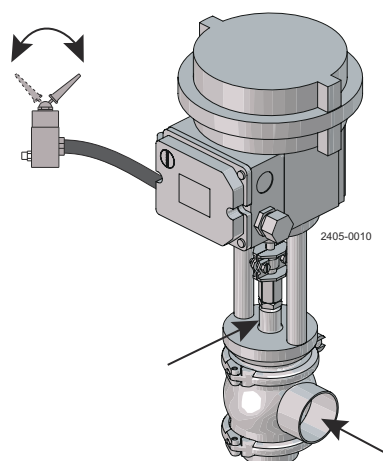
1. Lubricate O-ring (21) with Alfa Laval Lubricant.
2. Fit seat (63) and O-ring (21) in the valve body (26).
3. Fit and tighten lower clamp (19).
4. Fit plug (23) in valve body (26).
5. Fit bushing (24) in the bonnet (112).
6. Mount the actuator (110) and bonnet (112) together with the valve parts in the valve body (26).
7. Fit and tighten upper clamp (19).
8. Fit and tighten valve plug adjuster (114) and nut (115) to the plug (23).
9. Fit and tighten the clamp fittings (111).



Pre-use check

1. Activate the valve using compressed air.
2. Open and close the valve several times to ensure that it operates smoothly.

Pay special attention to the warnings!



5 Operation

5.1 Operation

NOTE

Study the instructions carefully and pay special attention to the warnings!
Ensure that the valve operates smoothly.

CAUTION

Alfa Laval cannot be held responsible for incorrect operation.

WARNING

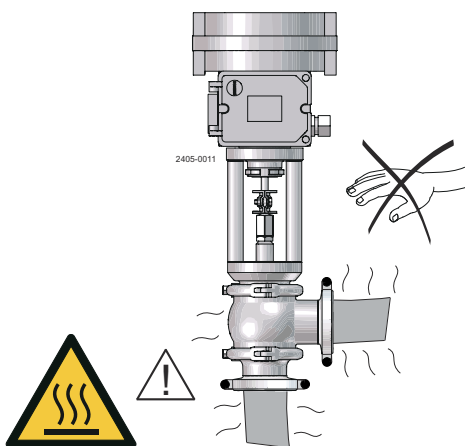
Always read the technical data thoroughly. See [Technical Data](#) on page 37.
Always release compressed air after use.



DANGER

Danger of burns!

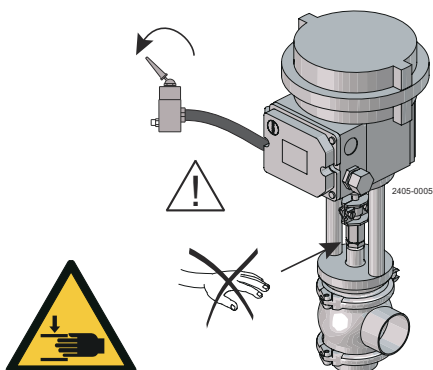
Never touch the valve or the pipelines when processing hot liquids or when sterilising.



DANGER

Moving parts!

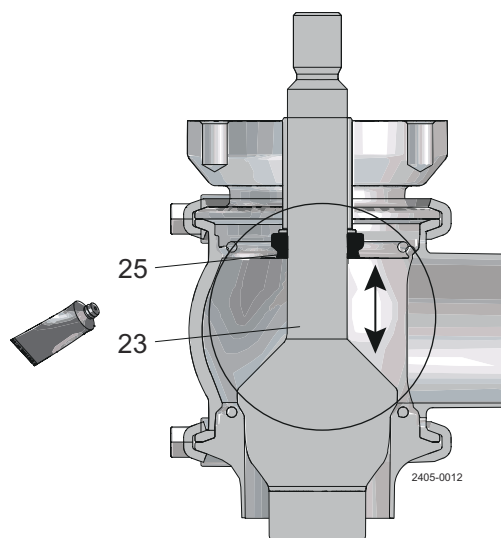
Never touch moving parts if the actuator is supplied with compressed air.



Lubrication of valves

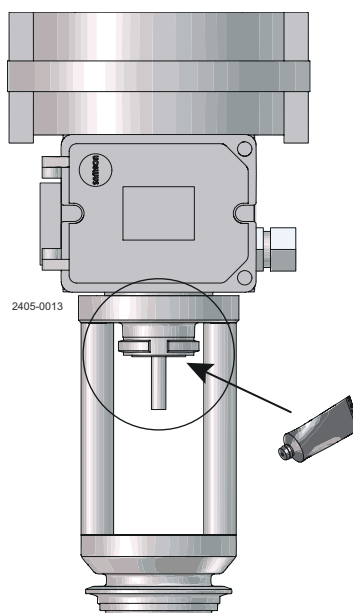
1. Ensure smooth movement between lip seal (25) and plug stem (23).
2. Lubricate with Alfa Laval Lubricant if necessary (see [General maintenance](#) on page 31).

The items refer to the [Parts List and Exploded View](#) on page 41.



Lubrication of actuator

1. Ensure smooth movement of the actuator (the actuator is lubricated before delivery).
2. Lubricate with Molykote Longterm 2 plus if necessary.



5.2 Troubleshooting

NOTE

Pay attention to possible faults.

Study the maintenance instructions carefully before replacing worn parts (see [General maintenance](#) on page 31).

Problem	Cause/result	Repair
External product leakage	Worn or damaged lip seal and/or O-ring	• Replace the seals • Replace with seals of a different rubber grade
Internal product leakage	• Worn or product-affected plug seal • Product deposits on the seat and/or plug	• Replace the seal • Replace with a seal of a different rubber grade • Frequent cleaning
Water hammer	The flow direction is the same as the closing direction	• The flow direction should be against the closing direction • Throttle air release of solenoid in top unit

5.3 Recommended Cleaning

NOTE

The supplied product is designed for cleaning in place (CIP).

NaOH = Caustic soda.

HNO₃ = Nitric acid.

The cleaning agents must be stored/disposed of in accordance with current regulations/directives.

CAUTION

Never touch the supplied product or the pipelines when sterilizing.

Always handle lye and acid with great care.

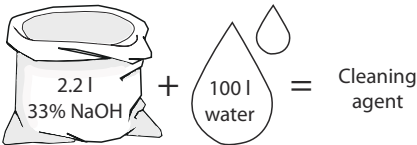
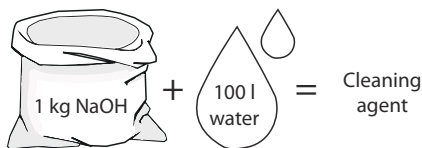


Examples of cleaning agents

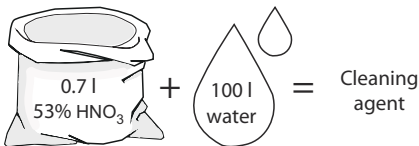
Use clean water free from chlorides

Metric System

1. 1% by weight NaOH at 70°C

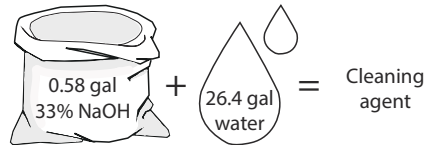
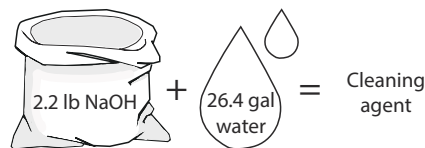


2. 0.5% by weight HNO₃ at 70°C

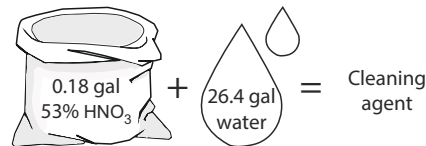


Imperial System

1. 1% by weight NaOH at 158°F



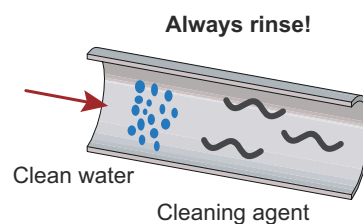
2. 0.5% by weight HNO₃ at 158°F



1. Avoid excessive concentration of the cleaning agent ⇒ **Dose gradually!**
2. Adjust the cleaning flow to the process
Milk sterilization/viscous liquids ⇒ Increase the cleaning flow!

CAUTION

Always rinse well with clean water after the cleaning.



6 Maintenance

6.1 General maintenance

NOTE

Maintain the valve regularly.

Study the instructions carefully and pay special attention to the warnings!

Always read the technical data thoroughly. See [Technical Data](#) on page 37.

All scrap must be stored/discharged in accordance with current regulations/directives.

Always keep spare rubber seals and lip seals in stock. Always use Alfa Laval genuine spare parts.

Check the valve for smooth operation after service.

WARNING

Always release compressed air after use.

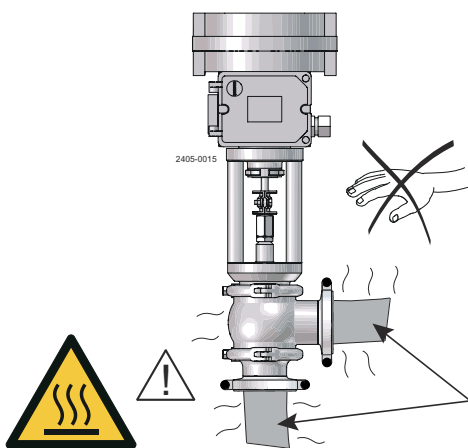


DANGER

Danger of burns!

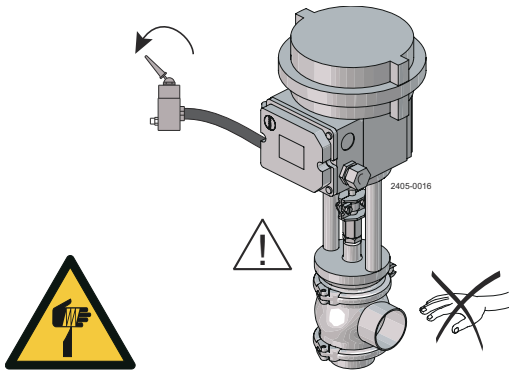
Never service the valve when it is hot.

Never service the valve with valve and pipelines under pressure.



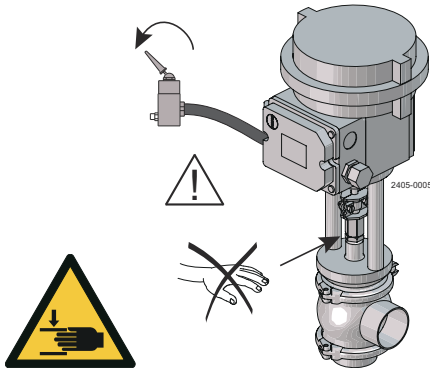
! DANGER Danger of cuts!

Never stick your fingers through the valve ports if the actuator is supplied with compressed air.



! DANGER Moving parts!

Never touch the moving parts if the actuator is supplied with compressed air.



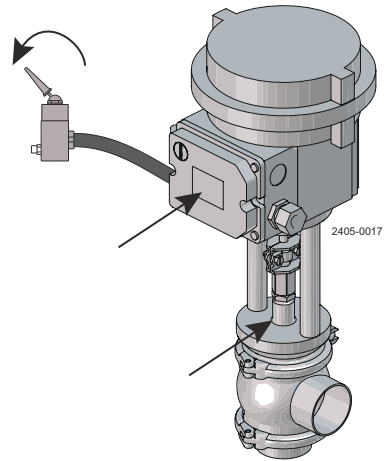
Below are some guidelines for maintenance and lubrication intervals. Please note that the guidelines are for normal working conditions in one shift.

Product wetted seals	
Preventive maintenance	Replace after 12 months depending on working conditions
Maintenance after leakage (leakage normally starts slowly)	Replace at the end of the day
Planned maintenance	- Regular inspection for leakage and smooth operation - Keep a record of the valve - Use the statistics for inspection planning Replace after leakage
Lubrication	Before fitting Alfa Laval Silicon based Food-grade Lubricant USDA H1 approved grease

Pre-use check

1. Supply compressed air to the actuator.
2. Activate the positioner program P15 to initialise the positioner.

Pay special attention to the warnings!



6.2 Dismantling the valve

NOTE

Study the instructions carefully.

Handle scrap correctly.

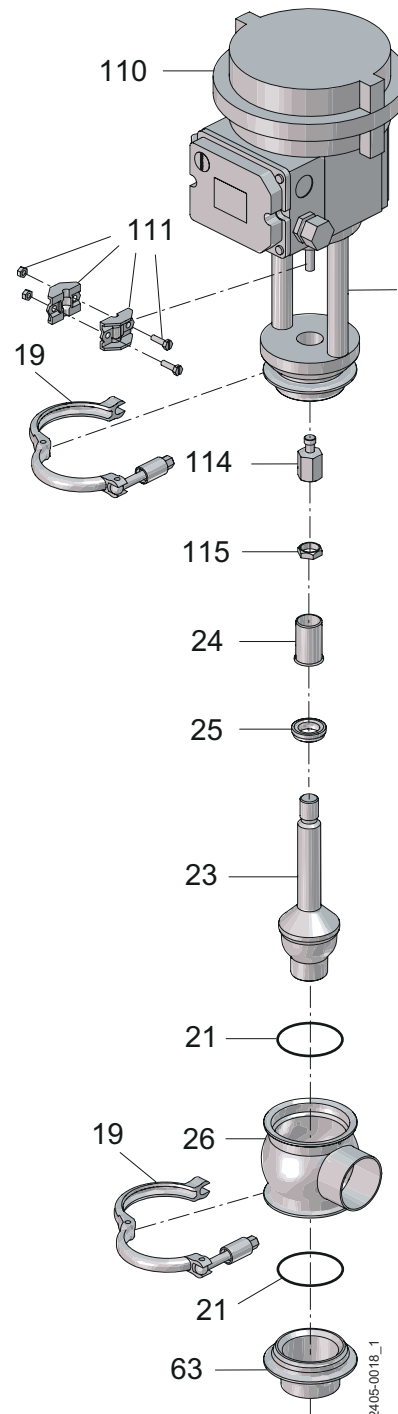
NC = Normally closed.

NO = Normally open.

Standard model

1. Loosen and remove upper clamp (19).
2. Unscrew the clamp fitting (111).
3. Unscrew the valve plug adjuster (114) and nut (115).
4. Lift away the actuator (110) and bonnet (112).
5. Remove valve plug (23).
6. Loosen and remove lower clamp (19).
7. Remove O-ring (21), lip seal (25) and bushing (24).
8. Remove seat (63) and O-ring (21) from valve body (26).

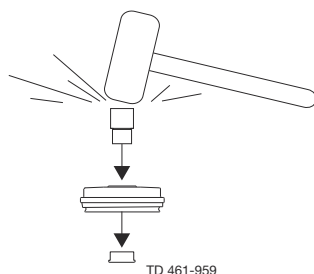
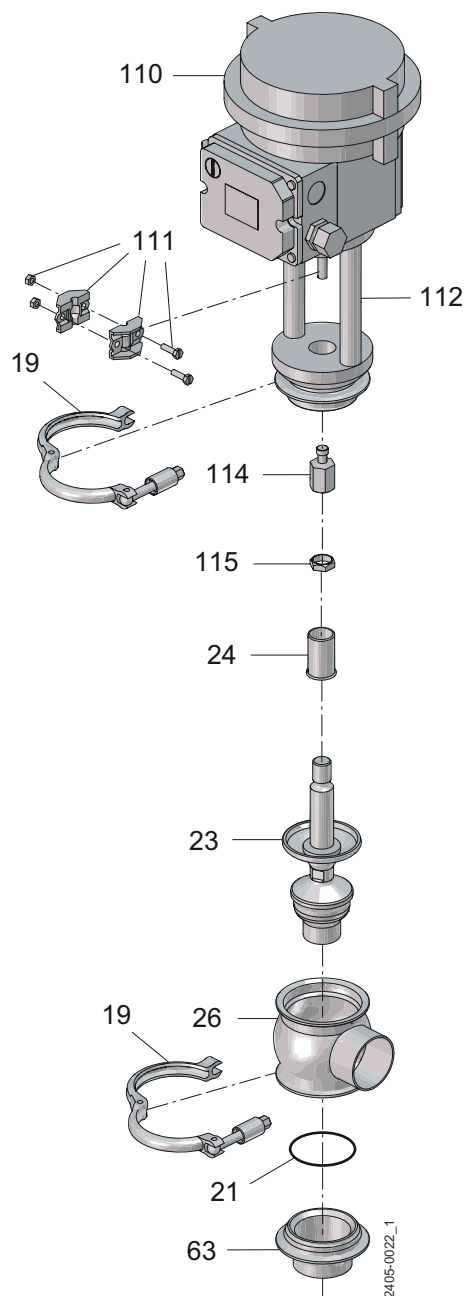
The items refer to the [Parts List and Exploded View](#) on page 41.



Aseptic model

1. Loosen and remove upper clamp (19).
2. Unscrew the clamp fitting (111).
3. Unscrew the valve plug adjuster (114) and nut (115).
4. Lift away the actuator (110) and bonnet (112).
5. Remove valve plug (23).
6. Loosen and remove lower clamp (19).
7. Remove bushing (24).
8. Remove seat (63) and O-ring (21) from valve body (26).

The items refer to the [Parts List and Exploded View](#) on page 41.



NOTE

Be careful not to damage the bushing.

6.3 Plug seal replacement

1. Remove the old seal ring using a knife, screwdriver or similar.
Be careful not to damage metal parts.
2. Pre-mount plug seal without pressing it into the groove.
3. Squeeze plug seal into the groove using opposite pressure points.
4. Release compressed air behind plug seal.

NOTE

For plug seal replacement, please read the instructions in the service kit.

6.4 Valve assembly

Reverse the order of *Dismantling the valve* on page 34.

Lubricate O-ring (21) and lip seal (25) with Alfa Laval Lubricant.

Remember to tighten spindle and plug to a torque of 30 Nm (using two 17 mm spanners).

If there are vibrations in the pipeline, Alfa Laval recommends the use of Loctite no. 243.

7 Technical Data



Technical data must be observed during installation, operation and maintenance.
All personnel should be informed about the technical data.

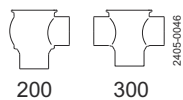
7.1 Technical Data

Valves	
Max. product pressure:	1000 kPa / 145 psi (10 bar)
Min. product pressure:	Full vacuum
Temperature range (EPDM):	-10 °C to +140 °C / 14 °F to 284 °F
Flow range Kv ($\Delta P = 1\text{bar}$):	0.5 to 110 m³/h / 2.2 - 484.32 US GPM
Max. pressure drop:	500 kPa / 72.52 psi (5 bar)
Actuator	
Air connection:	R1/8" BSP thread with air fitting for 6 mm (1/4") hose
Max. pressure:	600 kPa / 87 psi (6 bar)
Working pressure:	400 kPa / 58 psi (4 bar)
Air quality:	ISO 8573-1, Class 0.2.4
I/P converter	
Signal range:	4 - 20 mA (standard)
Input resistance:	200 Ω
Inductivity/capacitance:	Negligible

7.2 Physical Data

Materials, Valves	
Product wetted steel parts:	Stainless steel, 1.4404 (AISI 316L)
Other steel parts:	Stainless steel, 1.4301 (AISI 304)
Product wetted seals:	EPDM
External finish:	Semi-bright (blasted)
Internal finish:	Bright (polished), $R_a < 0.8 \mu\text{m}$ ($R_a < 32 \mu\text{in}$)
Materials, Actuator	
Actuator cases:	Aluminium with plastic coating
Diaphragms:	NBR with reinforced fabric insert
Springs:	Stainless steel uncovered/spring steel epoxy resin coated
Actuator stem:	Polyamide
Screws, nuts:	Stainless steel, polyamide
Other parts:	Stainless steel

7.3 Valve body combinations



7.4 Accuracy

Deviation:	≤1.5%
Hysteresis:	≤0.5%
Sensitivity:	<0.1%
Influence of air supply pressure:	≤0.1% between 1.4 and 6 bar (20.3 and 87 psi)
Air consumption at steady state condition:	With 0.6 bar (8.7 psi) signal pressure and supply pressures up to 6 bar (87 psi) ≤100 l/h
Ambient temperature:	-25 °C to +70 °C / -13 °F to +158 °F
Protection class:	IP66

7.5 Weight

Size	38 mm/1½"	51 mm/2"	63.5 mm/2½"	76.1 mm/3"	101.6 mm/4"
kg	8.2	9.3	9.7	11.2	24.9

8 Spare Parts

For every delivered Alfa Laval Product, a spare part list is available.

This spare part list contains a range of the most common wear parts for the machinery. If any component not mentioned is required, please contact your local Alfa Laval representative for availability.

You can find our spare part catalogue at <https://hygienicfluidhandling-catalogue.alfalaval.com>.

Always use Alfa Laval genuine spare parts. The warranty of Alfa Laval products is dependent on use of Alfa Laval genuine spare parts.

8.1 Ordering Spare Parts

When ordering spare parts, please always state:

1. Serial number (if available)
2. Item number/spare part number (if available)
3. Capacity or other relevant identification

8.2 Alfa Laval Service

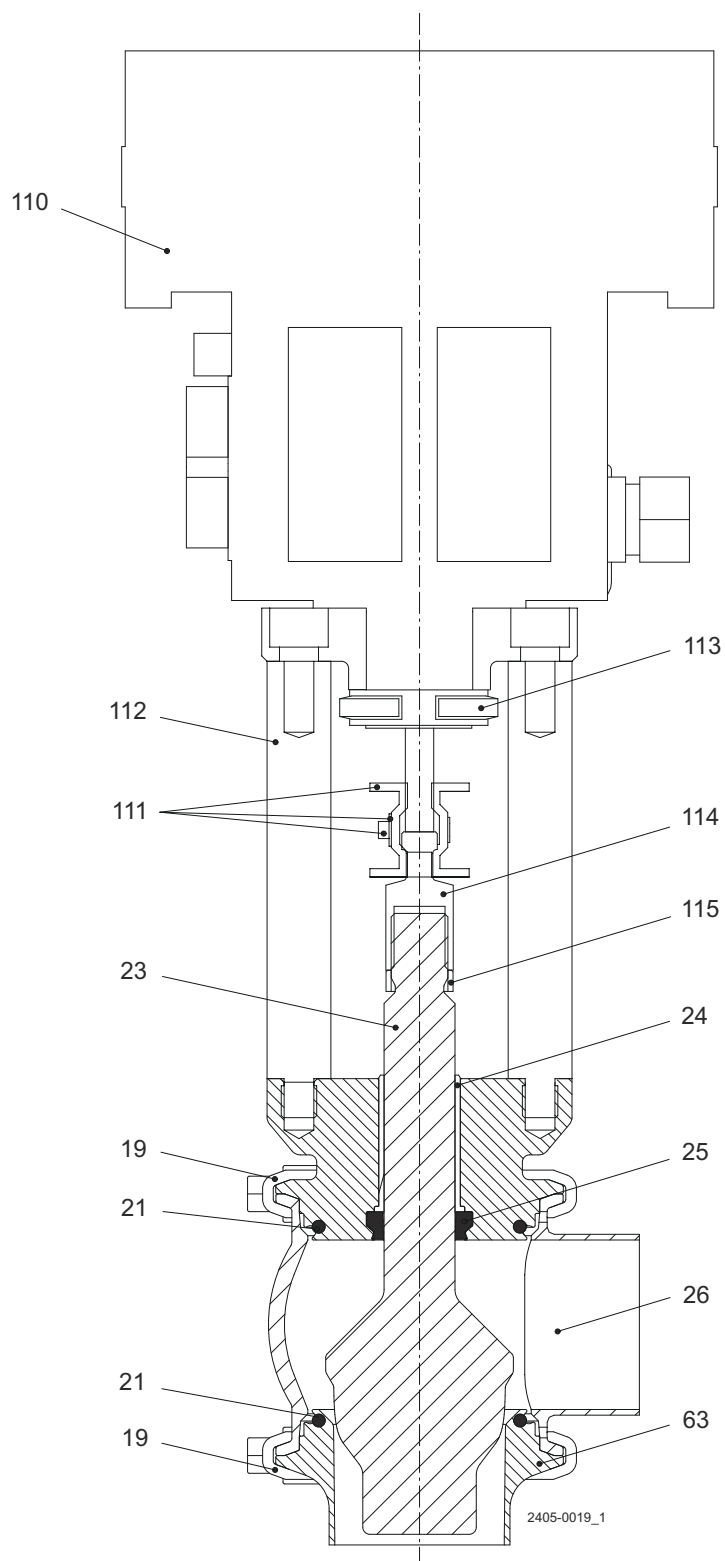
Alfa Laval is represented in all larger countries of the world.

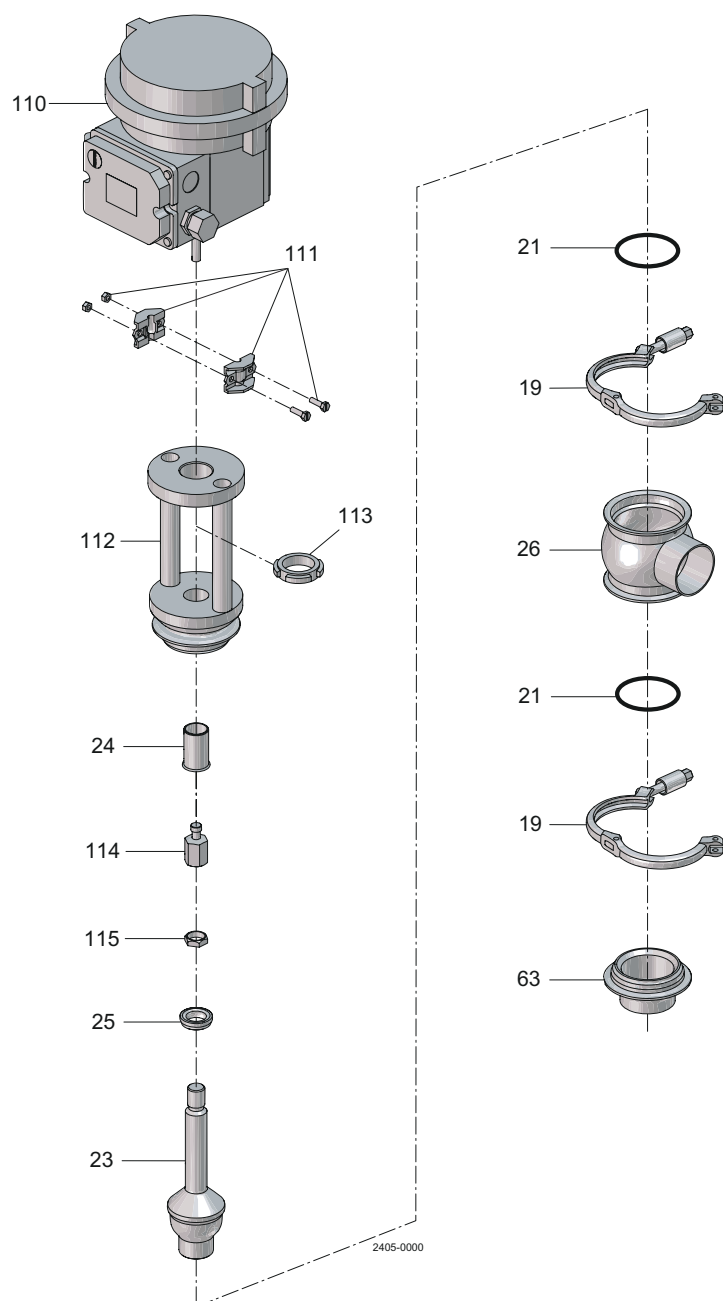
Do not hesitate to contact your local Alfa Laval representative, with any questions or requirement of spare parts for Alfa Laval equipment.

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9 Parts List and Exploded View

9.1 Unique RV-P, Standard Model

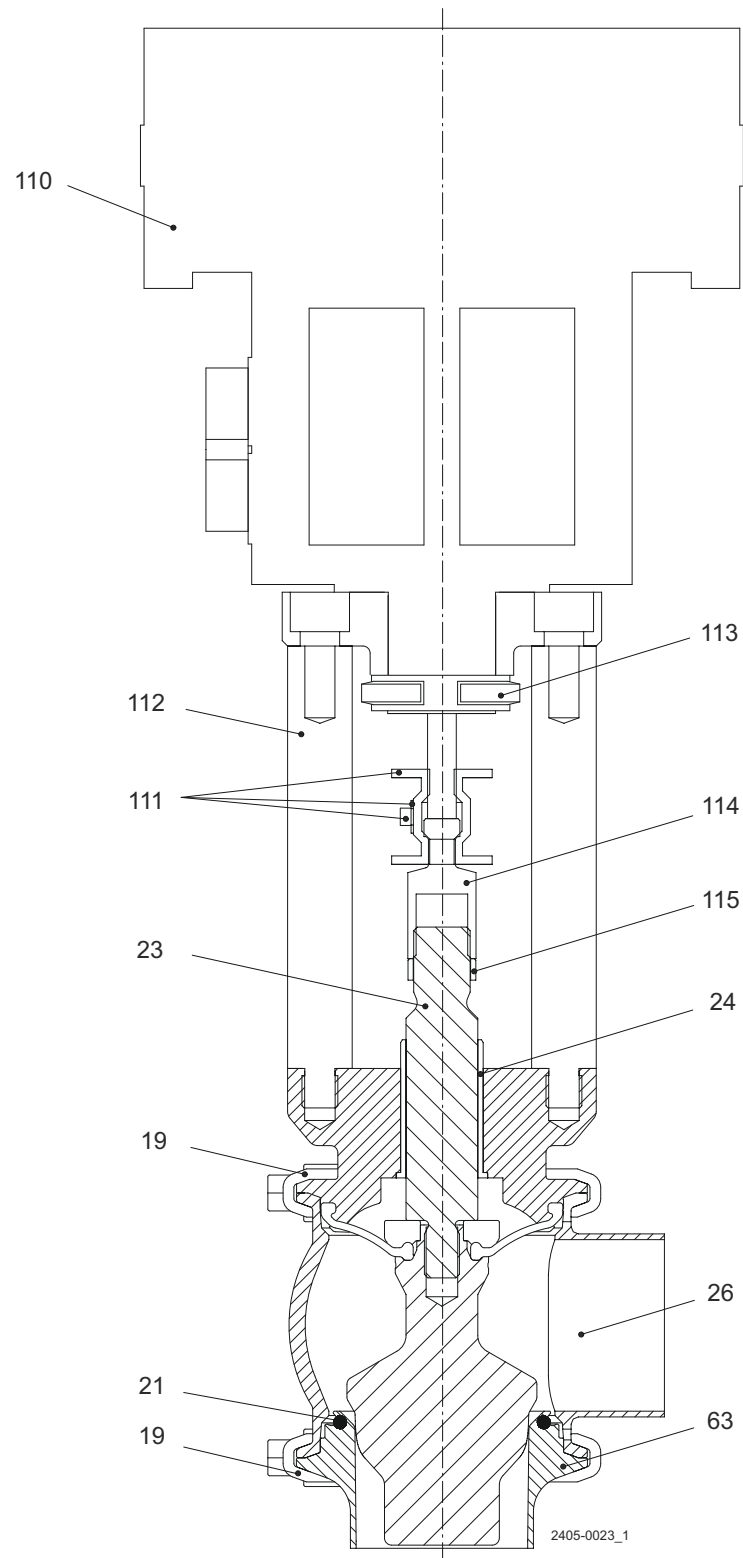


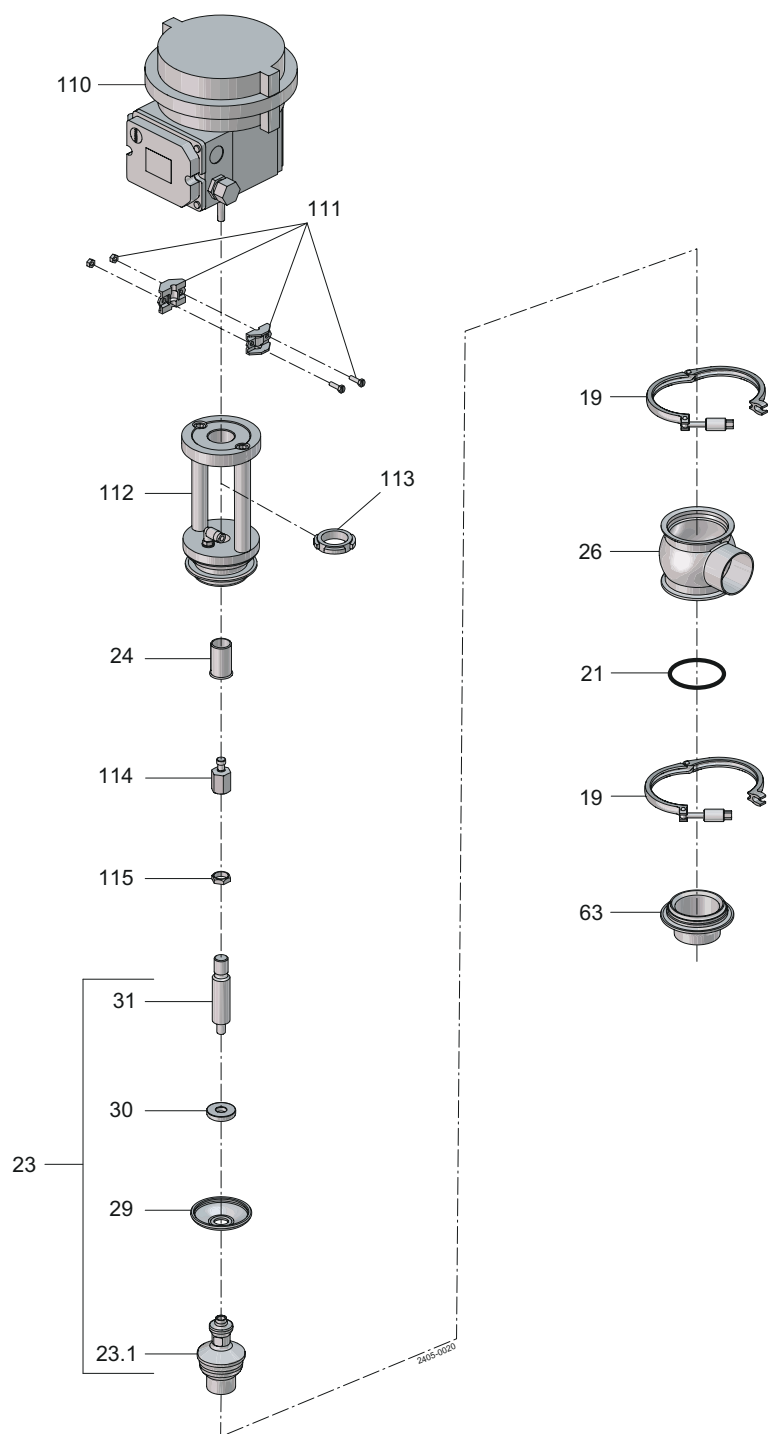


Pos.	Qty.	Denomination
19	2	Clamp
21	2	O-ring
23	1	Plug
24	1	Bushing
25	1	Lip seal
26	1	Valve body
63	1	Seat

Pos.	Qty.	Denomination
110	1	Actuator, complete
111	1	Clamp fitting
112	1	Bonnet, complete
113	1	Striking nut
114	1	Valve plug adjuster
115	1	Nut

9.2 Unique RV-P, Aseptic Model





Pos.	Qty.	Denomination
19	2	Clamp
21	1	O-ring
23	1	Plug, complete
23.1	1	Plug
26	1	Valve body
29	1	Diaphragm
30	1	Disc
31	1	Upper Spindel

Pos.	Qty.	Denomination
63	1	Seat
110	1	Actuator, complete
111	1	Clamp fitting
112	1	Bonnet, complete
113	1	Striking nut
114	1	Valve plug adjuster
115	1	Nut