

Flygt jet aerator JA 112, JA 117, JA 217, JA 317

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Introduction and Safety

Introduction

Purpose of the manual

The purpose of this manual is to provide necessary information for installation, operation, and maintenance of the unit. Read this manual carefully before starting work.

Read and keep the manual

Save this manual for future reference, and keep it readily available at the location of the unit.

Intended use



WARNING:

Operating, installing, or maintaining the unit in any way that is not covered in this manual could cause death, serious personal injury, or damage to the equipment and the surroundings. This includes any modification to the equipment or use of parts not provided by Xylem. If there is a question regarding the intended use of the equipment, please contact a Xylem representative before proceeding.

Pump manuals

The jet aerator is based on a submersible Flygt pump and a Flygt designed ejector system. For the installation, operation, and maintenance of the pump, see the appropriate pump manual.

Other manuals

See also the safety requirements and information in the original manufacturer's manuals for any other equipment furnished separately for use in this system.



Safety terminology and symbols


About safety messages

It is extremely important that you read, understand, and follow the safety messages and regulations carefully before handling the product. They are published to help prevent these hazards:

- Personal accidents and health problems
- Damage to the product and its surroundings
- Product malfunction



Hazard levels

Hazard level		Indication
	DANGER:	A hazardous situation which, if not avoided, will result in death or serious injury
	WARNING:	A hazardous situation which, if not avoided, could result in death or serious injury

Hazard level	Indication
 CAUTION:	A hazardous situation which, if not avoided, could result in minor or moderate injury
NOTICE:	Notices are used when there is a risk of equipment damage or decreased performance, but not personal injury.

Special symbols

Some hazard categories have specific symbols, as shown in the following table.

Electrical Hazard	Permanent-magnet hazard
 Electrical Hazard:	 CAUTION:

User safety

All regulations, codes, and health and safety directives must be observed.

The site

- Observe lockout/tagout procedures before starting work on the product, such as transportation, installation, maintenance, or service.
- Pay attention to the risks presented by gas and vapors in the work area.
- Always be aware of the area surrounding the equipment, and any hazards posed by the site or nearby equipment.

Qualified personnel

This product must be installed, operated, and maintained by qualified personnel only.

Protective equipment and safety devices

- Use personal protective equipment as needed. Examples of personal protective equipment include, but are not limited to, hard hats, safety goggles, protective gloves and shoes, and breathing equipment.
- Make sure that all safety features on the product are functioning and in use at all times when the unit is being operated.

Special hazards

Confined spaces



DANGER: Inhalation Hazard

The chamber or tank where the equipment is installed should be treated as a confined space. Always follow the applicable safety laws, regulations and guidelines for confined spaces.

Never work alone in a confined space. Before entering the space, check that the following requirements are complied with:

- The atmosphere contains sufficient oxygen
- The atmosphere contains no explosive or toxic gases
- All energy sources are locked out and tagged out
- Adequate ventilation is in place
- There is a clear path of retreat

- Monitoring is in place for hazards which can develop after entering the confined space
- The applicable safety laws, regulations, and guidelines for enclosed spaces are understood and followed.

Drowning

Spaces that are not fully drained or dry can pose a risk of drowning. It takes relatively little standing water or other liquid to create a drowning hazard. For example, insufficient oxygen or the presence of a toxic material can make a worker unconscious, which makes them vulnerable to drowning if they fall face down into a small pool of water. Never work alone where there is a risk of drowning.



WARNING:

Bear in mind the risk of drowning.

Biological hazards

The product is designed for use in liquids that can be hazardous to your health. Observe these rules when you work with the product:

- Make sure that all personnel who may come into contact with biological hazards are vaccinated against diseases to which they may be exposed.
- Observe strict personal cleanliness.



WARNING: Biological Hazard

Infection risk. Rinse the unit thoroughly with clean water before working on it.

Wash the skin and eyes

Follow these procedures for chemicals or hazardous fluids that have come into contact with your eyes or your skin:

Condition	Action
Chemicals or hazardous fluids in eyes	<ol style="list-style-type: none">1. Hold your eyelids apart forcibly with your fingers.2. Rinse the eyes with eyewash or running water for at least 15 minutes.3. Seek medical attention.
Chemicals or hazardous fluids on skin	<ol style="list-style-type: none">1. Remove contaminated clothing.2. Wash the skin with soap and water for at least 1 minute.3. Seek medical attention, if necessary.

Protecting the environment

Emissions and waste disposal

Observe the local regulations and codes regarding:

- Reporting of emissions to the appropriate authorities
- Sorting, recycling and disposal of solid or liquid waste
- Clean-up of spills

Exceptional sites



CAUTION: Radiation Hazard

Do NOT send the product to Xylem if it has been exposed to nuclear radiation, unless Xylem has been informed and appropriate actions have been agreed upon.

Spare parts



CAUTION:

Only use the manufacturer's original spare parts to replace any worn or faulty components. The use of unsuitable spare parts may cause malfunctions, damage, and injuries as well as void the warranty.

Warranty

For information about warranty, see the sales contract.

Transportation and Storage

Inspect the delivery

Inspect the package

1. Inspect the package for damaged or missing items upon delivery.
2. Note any damaged or missing items on the receipt and freight bill.
3. File a claim with the shipping company if anything is out of order.
If the product has been picked up at a distributor, make a claim directly to the distributor.

Inspect the unit

1. Remove packing materials from the product.
Dispose of all packing materials in accordance with local regulations.
2. Inspect the product to determine if any parts have been damaged or are missing.
3. If applicable, unfasten the product by removing any screws, bolts, or straps.
For your personal safety, be careful when you handle nails and straps.
4. Contact the local sales representative if there is any issue.

Lifting



Always inspect the lifting equipment and tackle before starting any work.

WARNING: Crush Hazard

1) Always lift the unit by its designated lifting points. 2) Use suitable lifting equipment and ensure that the product is properly harnessed. 3) Wear personal protective equipment. 4) Stay clear of cables and suspended loads.

NOTICE:

Never lift the unit by its cables or hose.

Lifting equipment

Lifting equipment is always required when handling the unit. It must fulfill the following requirements:

- The minimum height (contact your local sales and service representative for information) between the lifting hook and the floor must be sufficient to lift the unit.
- The lifting equipment must be able to hoist the unit straight up and down, preferably without the need for resetting the lifting hook.
- The lifting equipment must be securely anchored and in good condition.
- The lifting equipment must support the weight of the entire assembly and must only be used by authorized personnel.
- Two sets of lifting equipment must be used to lift the unit for repair work.
- The lifting equipment must be dimensioned to lift the unit with any remaining pumped media in it.
- The lifting equipment must not be oversized.



CAUTION: Crush Hazard

Over-dimensioned lifting equipment can lead to injury. A site-specific risk analysis must be done.

Product Description

Jet aerator design

Usage

A submersible, self-aspirating jet aerator that is intended for aerating and mixing of wastewater. The jet aerator is based on a submersible Flygt pump and a Flygt designed ejector system.

Pump pressure class

LT - Low head

MT - Medium head

Application limits

For temperatures higher than 40° (104°F), contact your sales and service representative.

Feature	Description
Liquid temperature	Maximum 40° (104°F)
pH of the pumped liquid	5.5–14
Liquid density	Maximum 1100 kg/m ³ (9.2 lb per US gallon)

Installation alternatives

P-installation	<p>Semi permanent, wet well arrangement with pump installed on two guide bars with automatic connection to discharge.</p> <p>The pump is installed on a discharge connection that is fixed to the base of the tank, with the ejector system mounted on it. This installation is recommended for large jet aerators, where moving the pump is more practical than moving the ejector system.</p>
S-installation	<p>Portable semi permanent, wet well arrangement with hose coupling or flange for connection to discharge pipeline.</p> <p>The jet aerator is placed on the bottom of the tank. The jet aerator can be installed without emptying the tank.</p>

For submergence (H) and height (Z), see the dimensional drawings. For a list of parts, see chapter [List of Parts](#) (page 42).

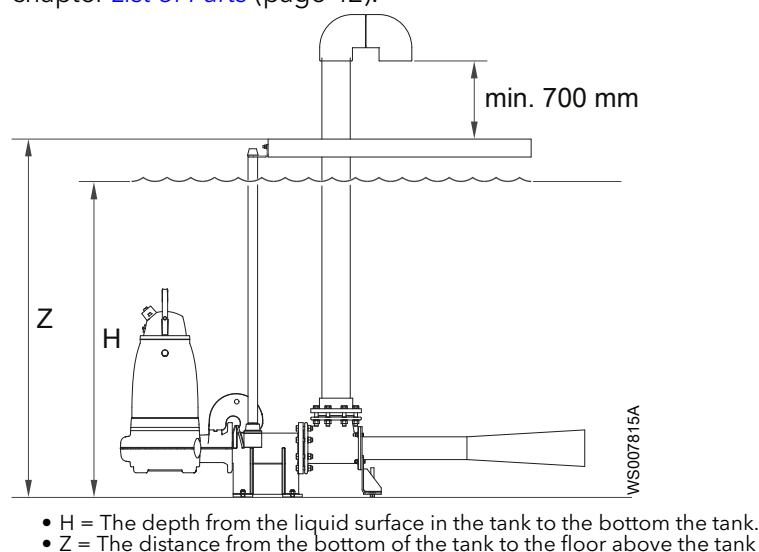
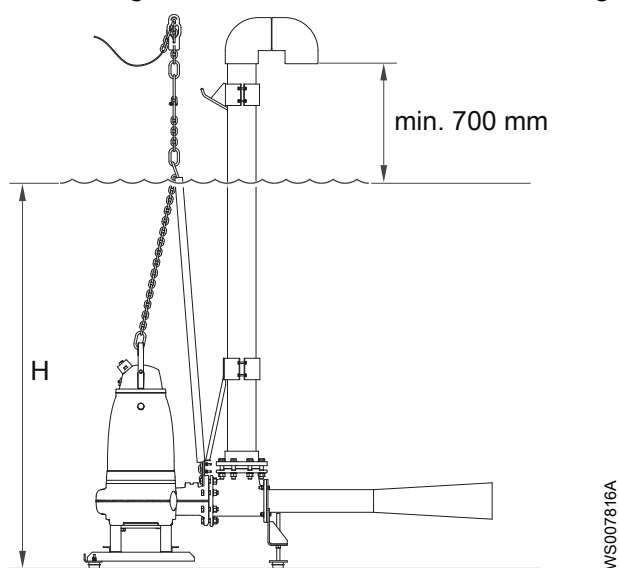


Figure 1: P-installation

For submergence (H), see the dimensional drawings.



H = The depth from the liquid surface in the tank to the bottom the tank.

Figure 2: S-installation

Weight

Table 1: P-installation

The table shows the approximate pump weight and the ejector system weight without suction pipe.

Pump	Weight	
Type	Pump weight kg (lb)	Ejector system weight kg (lb)
NP 3085 MT	69 (152)	45 (99)
NP 3102 MT	107 (236)	45 (99)
NP 3127 LT	154 (339)	105 (232)
NP 3153 MT	218 (481)	105 (232)
NP 3171 MT	329 (725)	105 (232)
NP 3202 MT	580 (1279)	235 (518)
NP 3202 LT	790 (1742)	380 (838)

Table 2: S-installation

The table shows the approximate jet aerator weight including pump and 5 m PVC-U suction pipe.

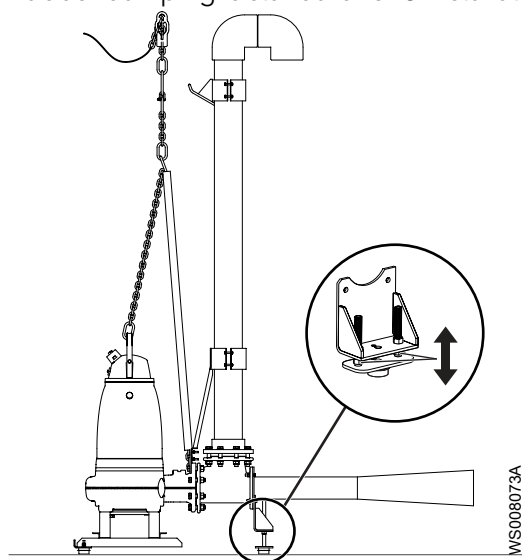
Pump	Complete jet aerator
Type	Weight kg (lb)
NS 3085 MT	120 (266)
NX 3102 MT	170 (375)
NX 3127 LT	282 (621)
NX 3153 MT	350 (772)
NX 3171 MT	470 (1036)
NX 3202 MT	750 (1653)
NX 3202 LT	1300 (2866)

Spare parts

- See [Spare parts](#) (page 5)
- Modifications to the unit or installation should only be carried out after consulting with Xylem.

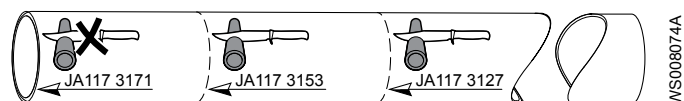
Rubber damping

Rubber damping is standard for S-installation.



Chain hose

The chain hose is standard for S-installation. The hose keeps the chain taut when hanging from the holder on the suction pipe. Cut the chain hose to the correct length when pump 3127 or 3153 is used.



Installation

Precautions

Before starting work, make sure that the safety instructions in the chapter [Introduction and Safety](#) (page 2) have been read and understood.



DANGER: Electrical Hazard

Before starting work on the unit, make sure that the unit and the control panel are isolated from the power supply and cannot be energized. This applies to the control circuit as well.



DANGER: Inhalation Hazard

Before entering the work area, make sure that the atmosphere contains sufficient oxygen and no toxic gases.

Pump manuals

The jet aerator is based on a submersible Flygt pump and a Flygt designed ejector system. For the installation, operation, and maintenance of the pump, see the appropriate pump manual.

Precautions before work

Observe these safety precautions before you work with the product or are in connection with the product:

- Provide a suitable barrier around the work area, for example, a guard rail.
- Make sure that all safety guards are in place and secure.
- Make sure that you have a clear path of retreat.
- Make sure that the product cannot roll or fall over and injure people or damage property.
- Make sure that the lifting equipment is in good condition.
- Use a lifting harness, a safety line, and a breathing device as required.
- Allow all system and pump components to cool before you handle them.
- Make sure that the product has been thoroughly cleaned.
- Disconnect and lock out power before you service the pump.
- Check the explosion risk before you weld or use electric hand tools.

Requirements

Before installation of the jet aerator, do the following:

- To ensure proper installation, use the dimensional drawings.
- Always remove all debris and waste material from the sump, inlet piping, and discharge connection, before you install the product.

NOTICE:

Never force piping to make a connection with a pump.

Lifting equipment requirements

- A pump lift and a chain sling are supplied and must be used to lift the jet aerator.
- Assembly of the lifting equipment must be done according to the assembly instructions.

In addition to the guidelines in chapter Transportation and Storage, observe the following:

P-installation	Lifting equipment is required to handle the jet aerator. The lifting chain and the shackle should be in stainless steel and inspected every year.
S-installation	The minimum height between the lifting hook and the ground must be sufficient to be able to lift the jet aerator out of the tank.

Authority regulation

Vent the tank of a sewage station in accordance with local plumbing codes.

Fasteners

- Only use fasteners of the proper size and material.
- Replace all corroded fasteners.
- Make sure that all fasteners are properly tightened and that there are no missing fasteners.

Torque values

All screws and nuts must be lubricated to achieve correct tightening torque. Screws that are screwed into stainless steel must have the threads coated with suitable lubricants to prevent seizing.

If there is a question regarding the tightening torques, please contact the local sales and service representative.

Screws and nuts

Table 3: Stainless steel, A2 and A4, torque Nm (ft-lbs)

Property class	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30
50	1.0 (0.74)	2.0 (1.5)	3.0 (2.2)	8.0 (5.9)	15 (11)	27 (20)	65 (48)	127 (93.7)	220 (162)	434 (320)
70, 80	2.7 (2)	5.4 (4)	9.0 (6.6)	22 (16)	44 (32)	76 (56)	187 (138)	364 (268)	629 (464)	1240 (915)
100	4.1 (3)	8.1 (6)	14 (10)	34 (25)	66 (49)	115 (84.8)	248 (183)	481 (355)	–	–

Table 4: Steel, torque Nm (ft-lbs)

Property class	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30
8.8	2.9 (2.1)	5.7 (4.2)	9.8 (7.2)	24 (18)	47 (35)	81 (60)	194 (143)	385 (285)	665 (490)	1310 (966.2)
10.9	4.0 (2.9)	8.1 (6)	14 (10)	33 (24)	65 (48)	114 (84)	277 (204)	541 (399)	935 (689)	1840 (1357)
12.9	4.9 (3.6)	9.7 (7.2)	17 (13)	40 (30)	79 (58)	136 (100)	333 (245)	649 (480)	1120 (825.1)	2210 (1630)

Hexagon screws with countersunk heads

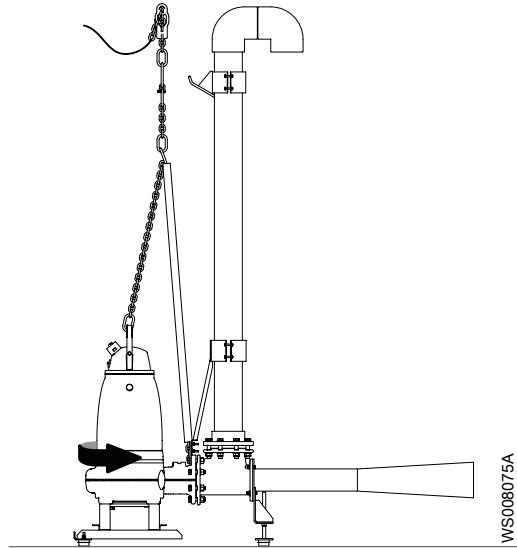
For hexagon socket head screws with countersunk head, maximum torque for all property classes must be 80% of the values for property class 8.8 above.

Check before start-up

Check that the pump installation is completed according to the applicable Installation, Operation, and Maintenance manual.

- Check the horizontal positioning of the jet aerator according to the dimensional drawings.
- Check that the water jet propagates freely without meeting obstacles or side walls. The direction of flow that is created must not conflict with flows of other mixers or jet aerators installed.

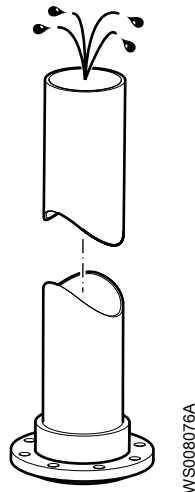
- Check that the pump inflow is not disturbed and that air is not sucked into the pump.
- Check that the starting jerk is in the correct direction.



- Inspect periodically the fixing elements between the pump and the ejector system.

NOTICE:

Watch out for the return jet from the suction pipe when the machine stops.



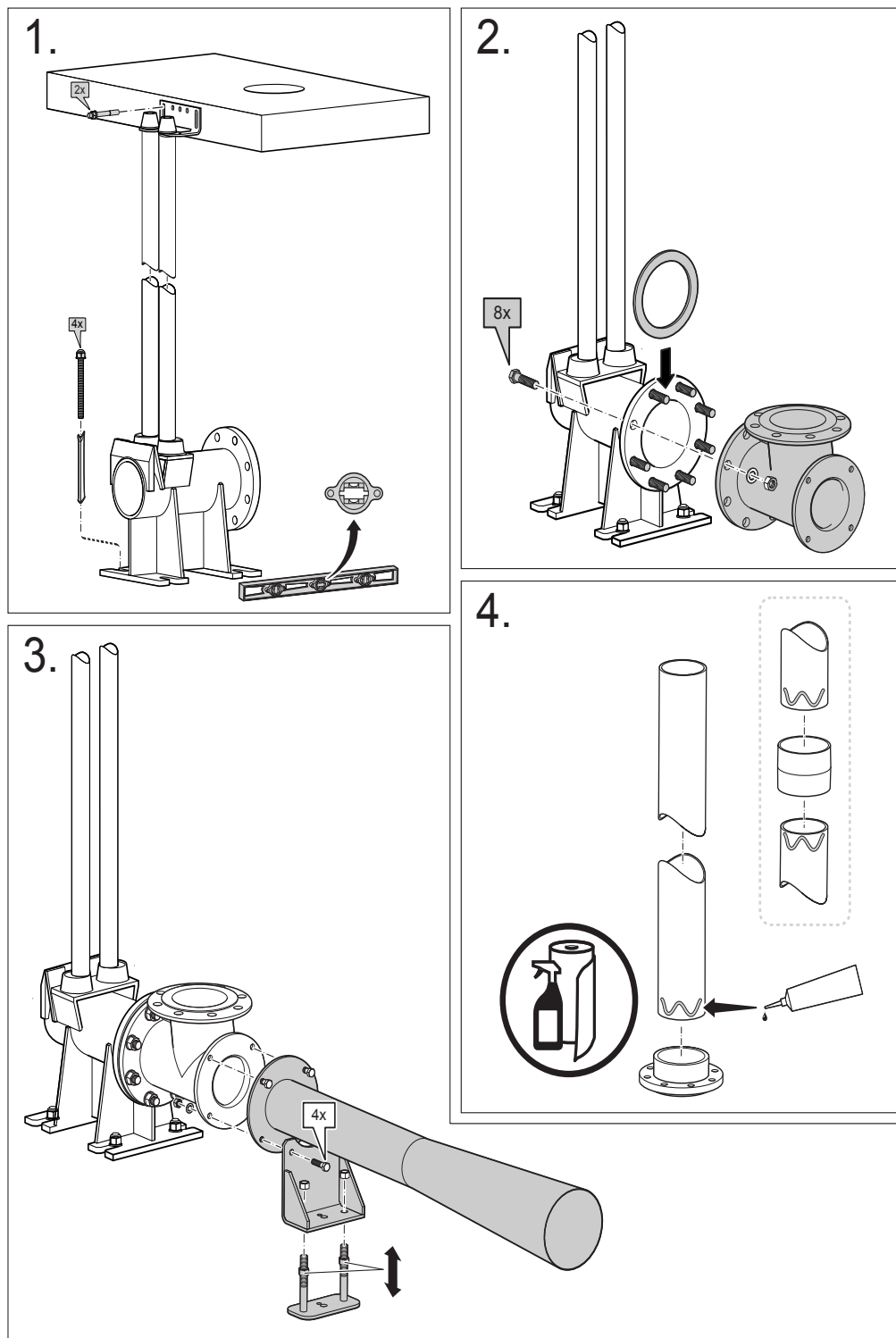
If there is a problem with the return jet, then the suction pipe can be extended.

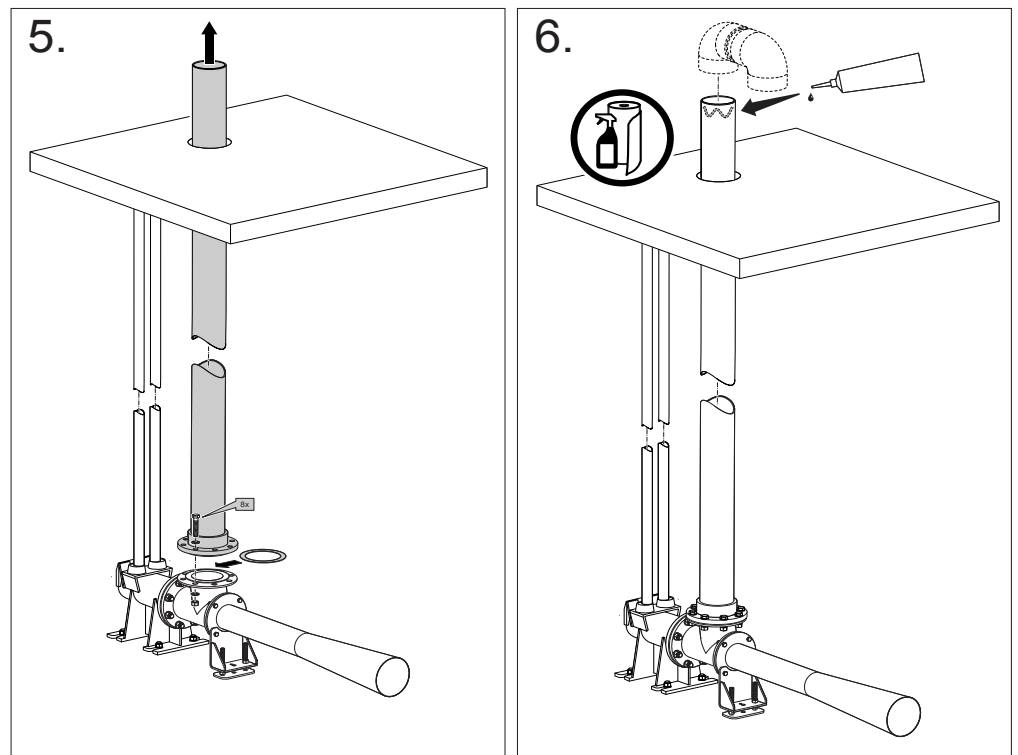
Mechanical Installation

P-installation

JA 112 and JA 117, P-installation

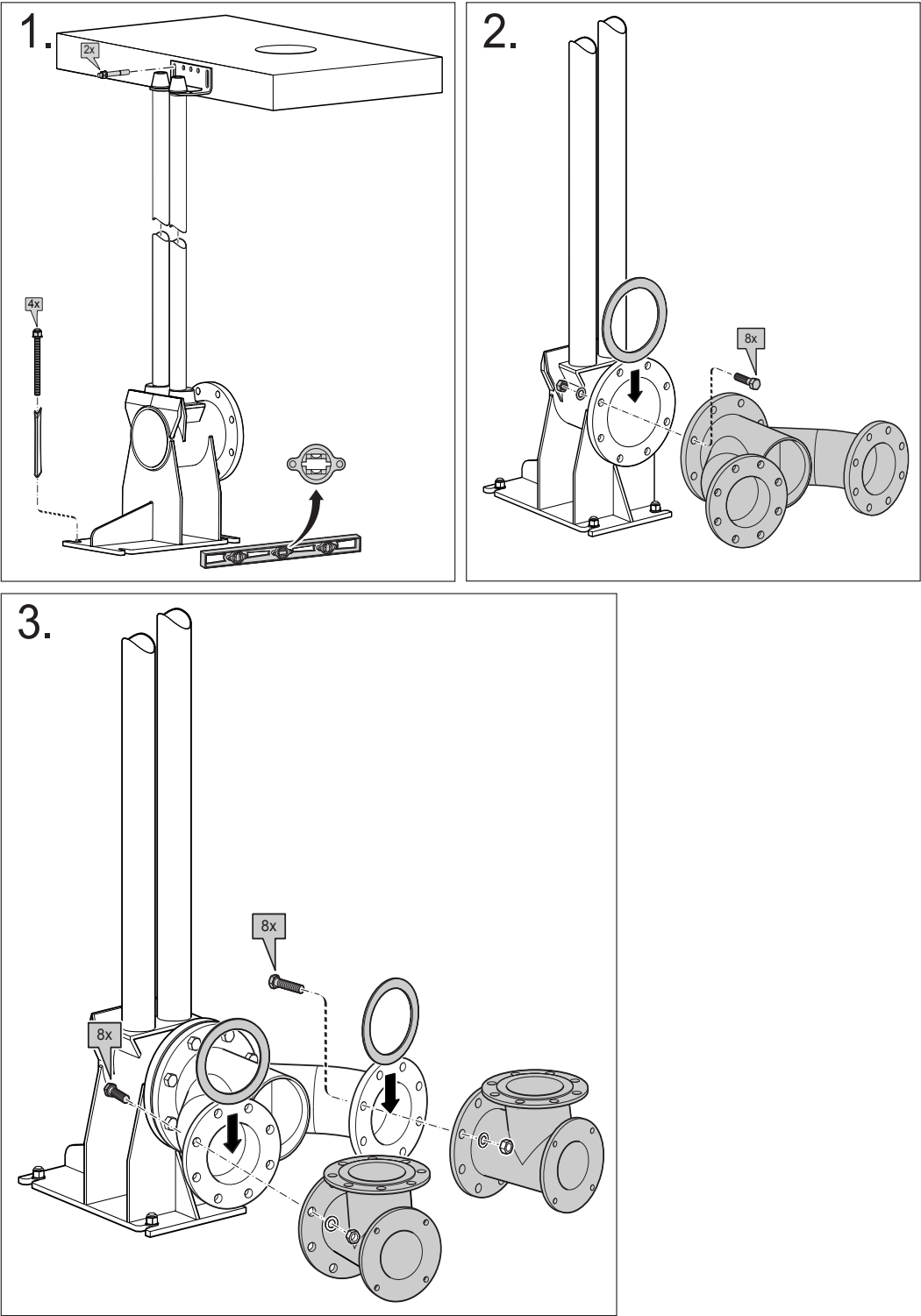
Assemble JA 112 or JA 117 with pumps 3085 MT, 3102 MT, 3127 LT, 3153 MT, 3171 MT



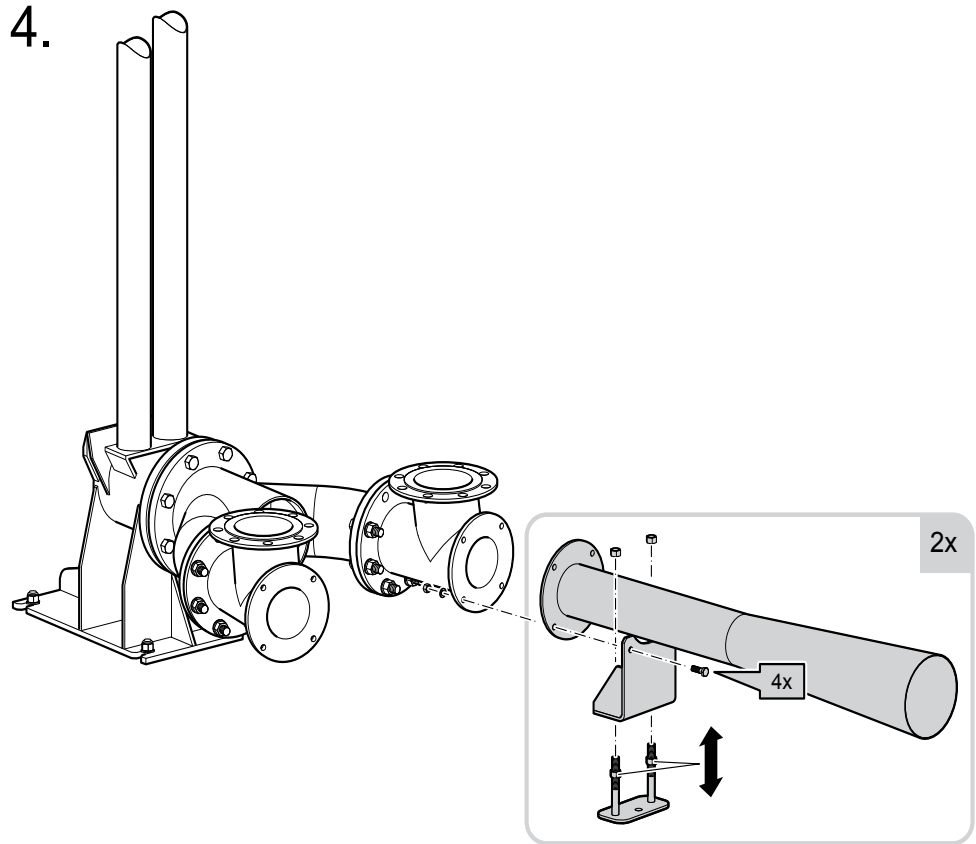


JA 217, P-installation

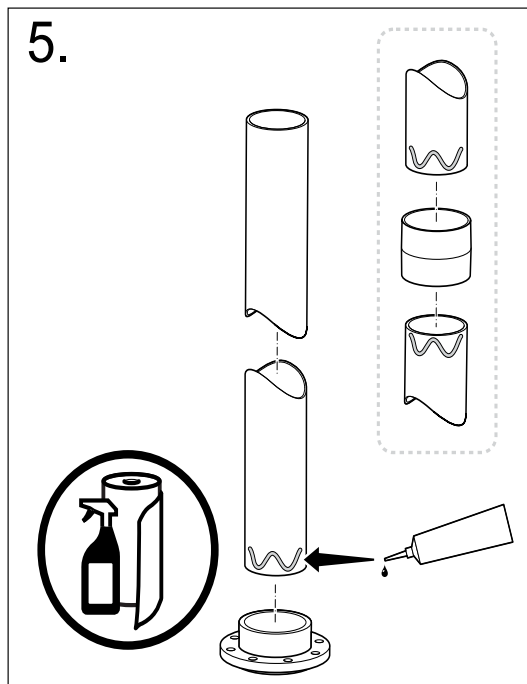
Assemble JA 217 with pump 3202 MT.

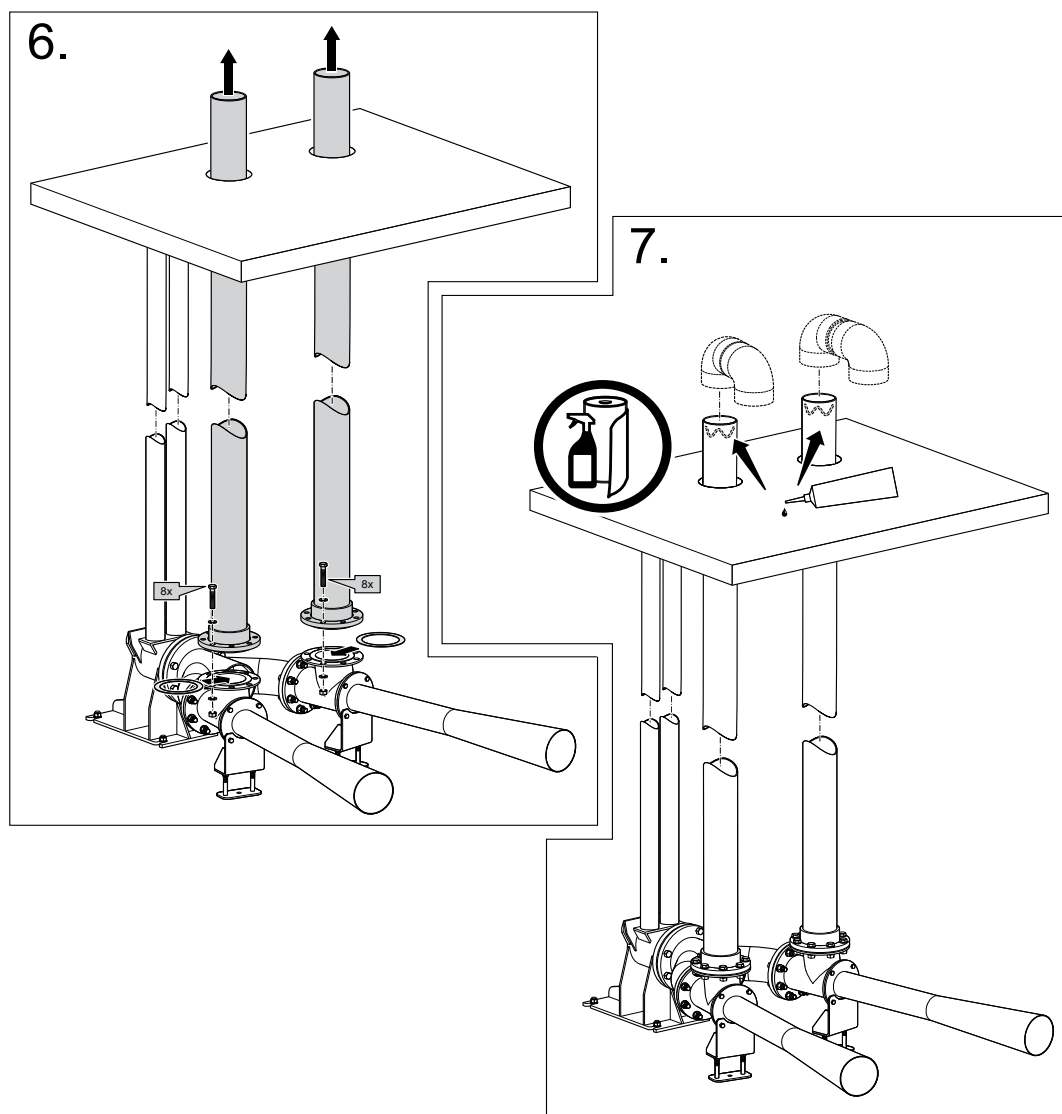


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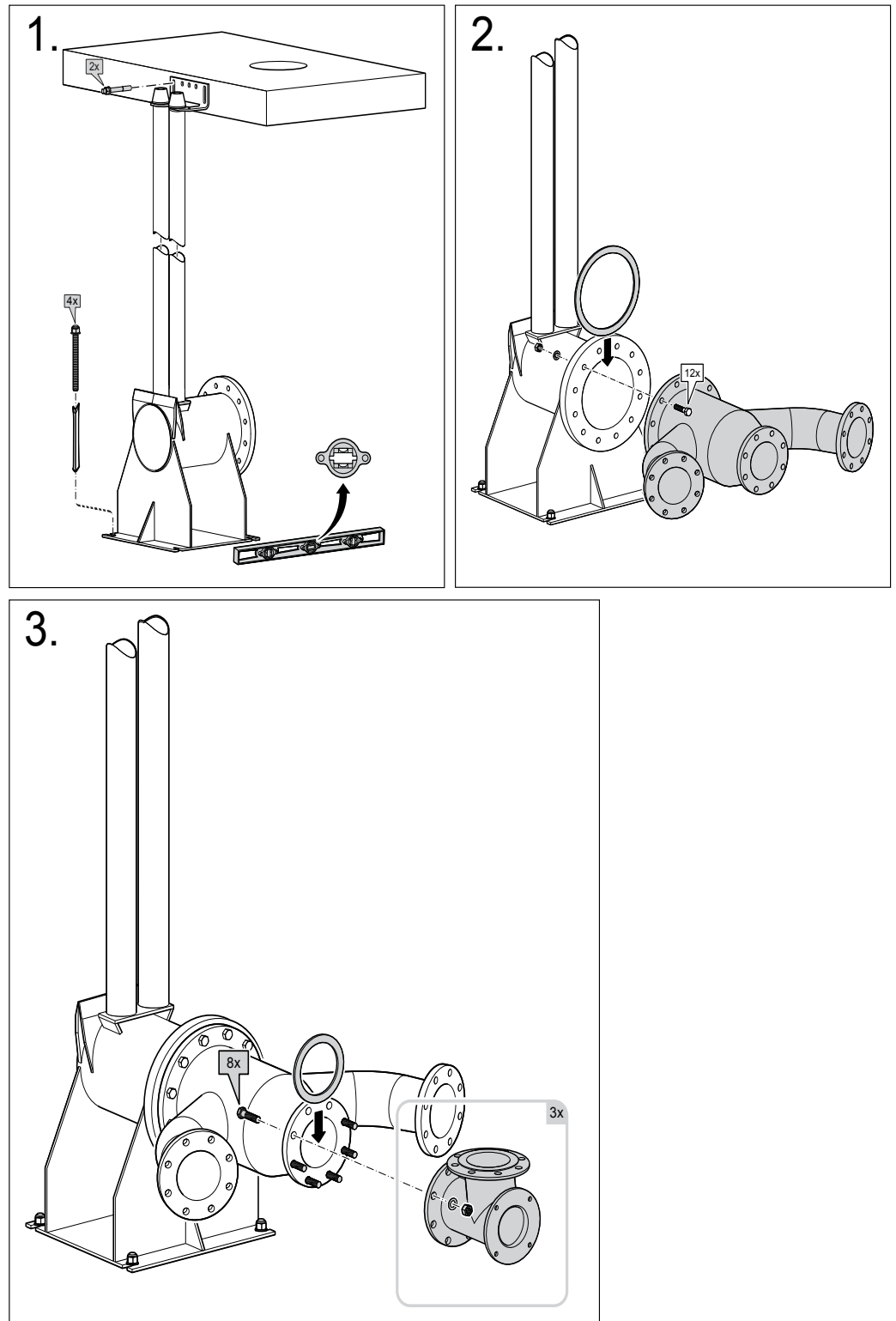
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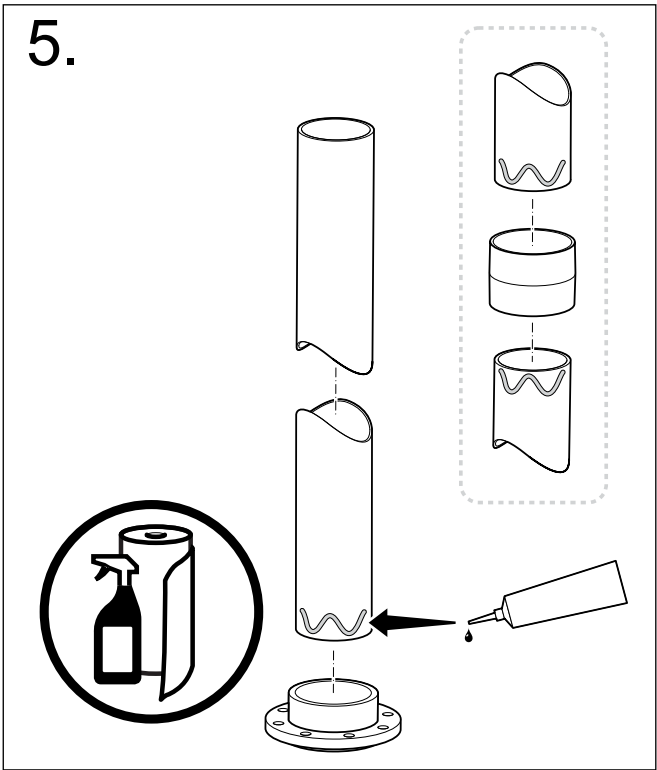
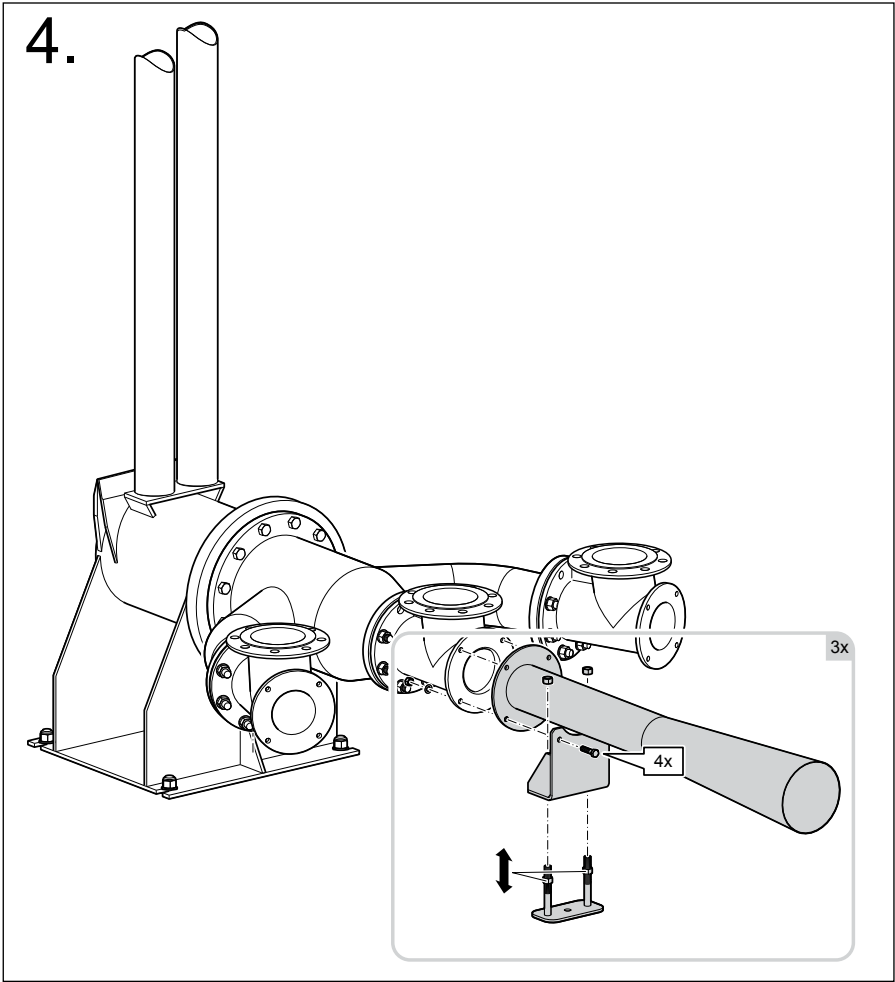


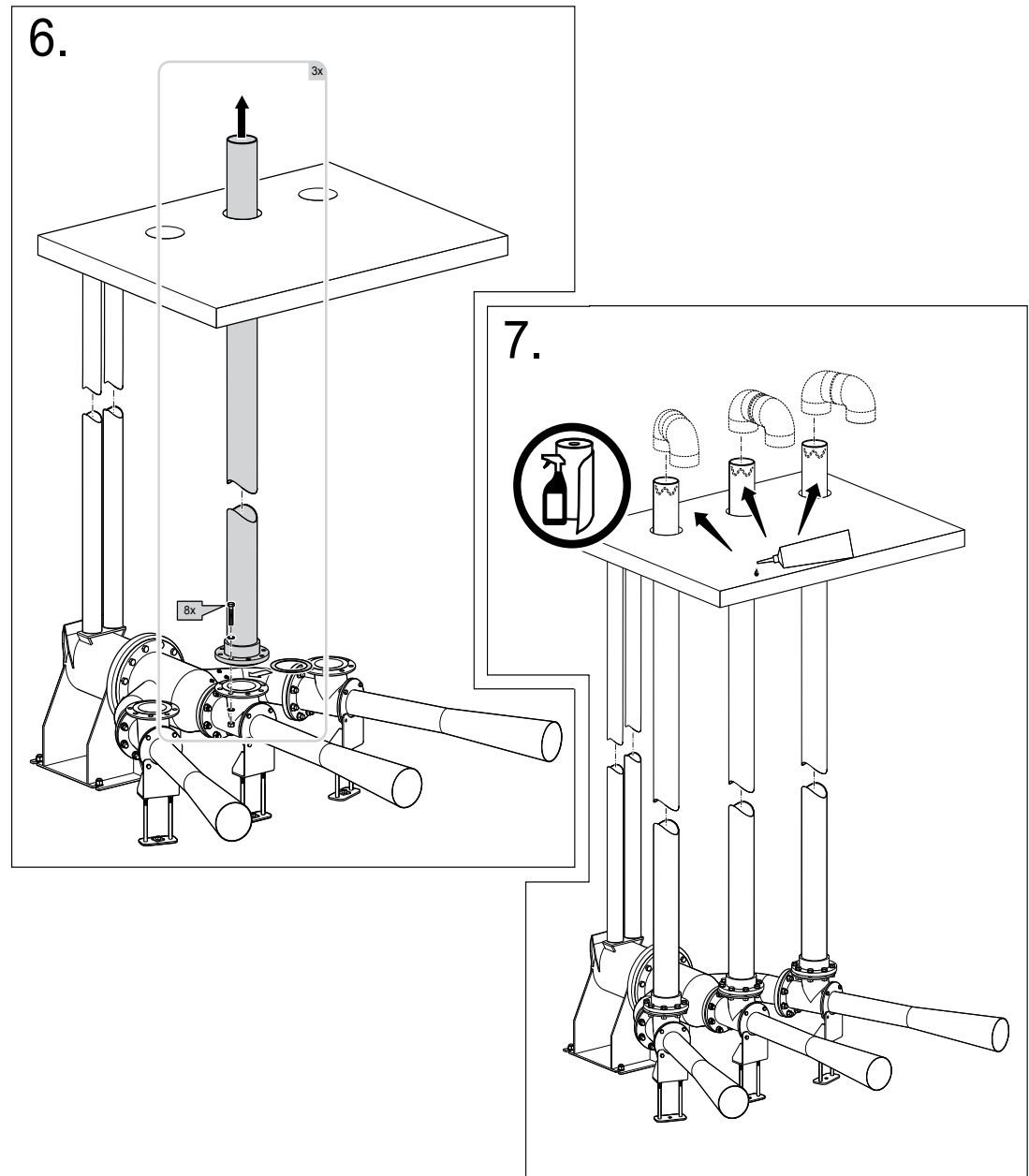


JA 317, P-installation

Assemble JA 317 with pump 3202 LT.



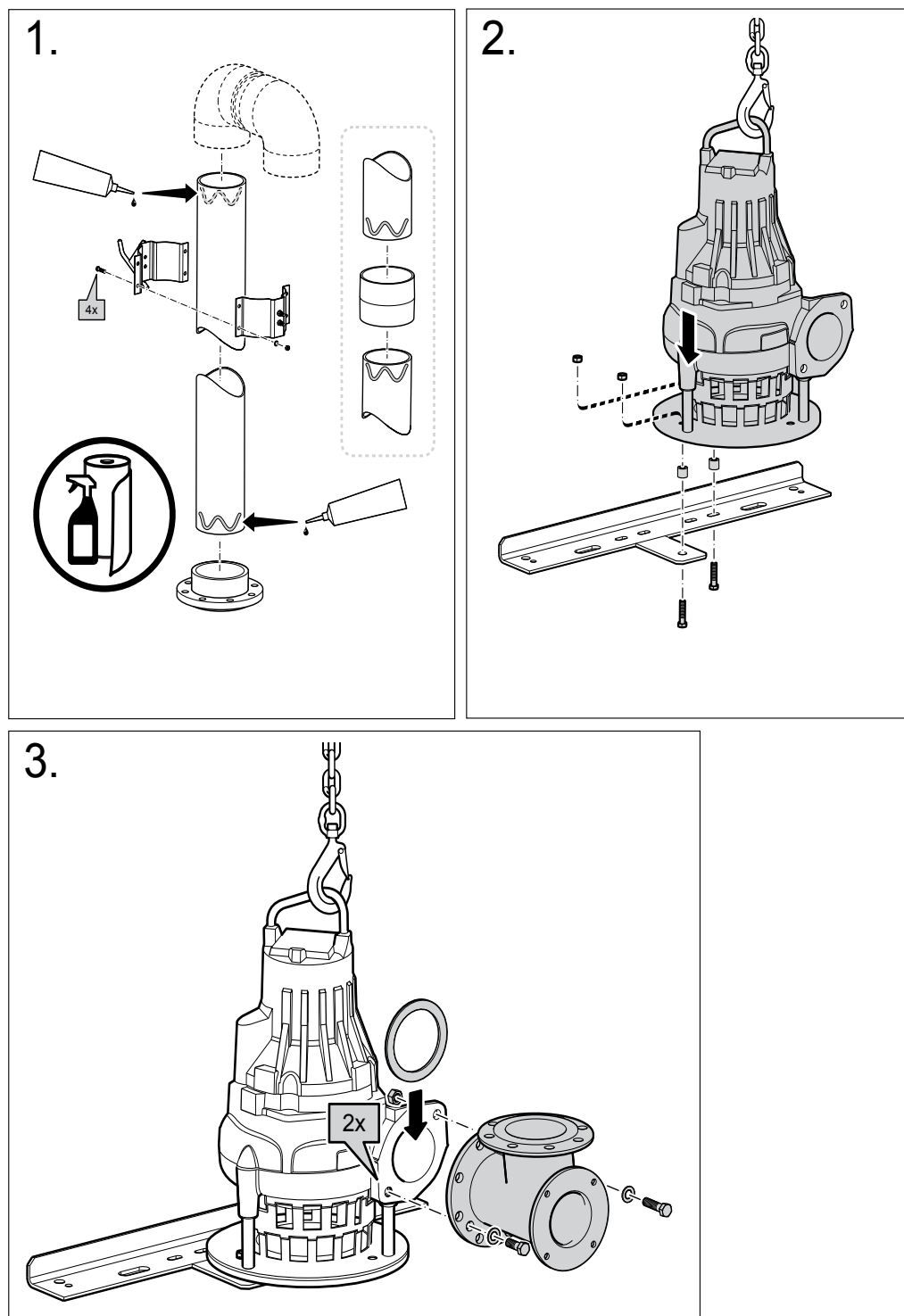




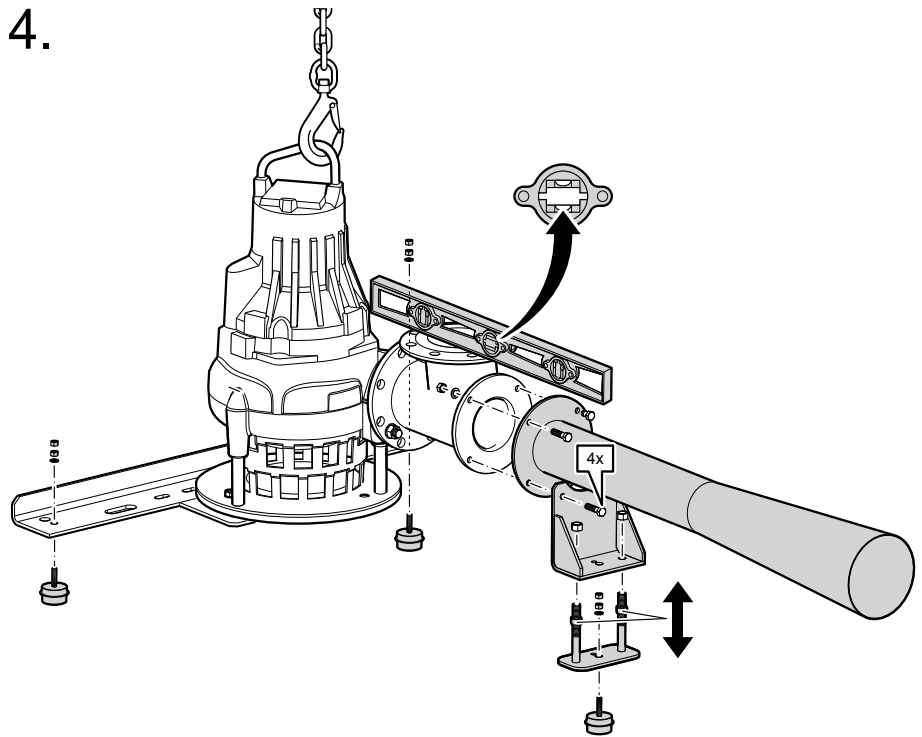
S-installation

JA 112, 3085, S-installation

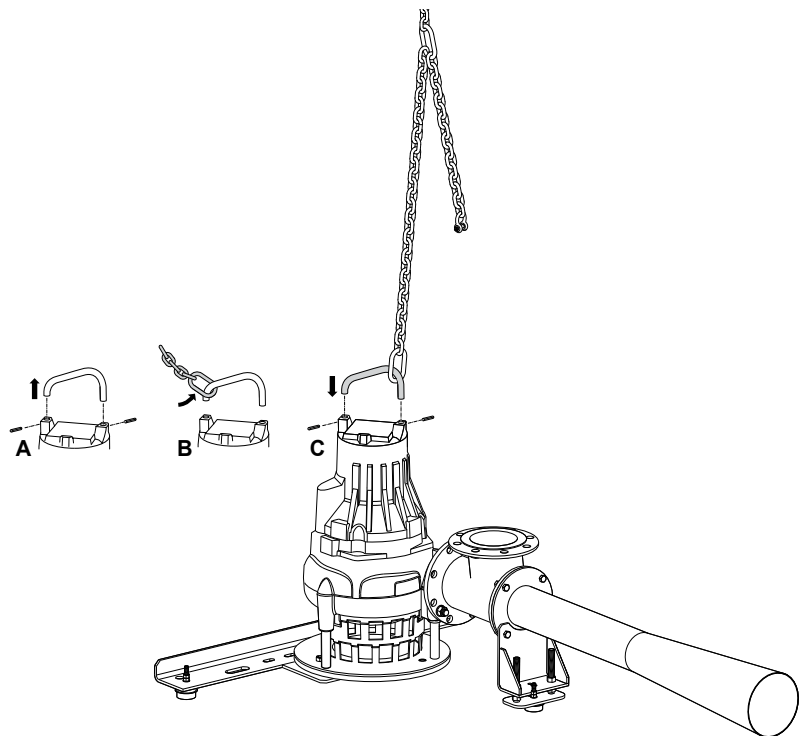
Assemble JA 112 with pump 3085 MT.

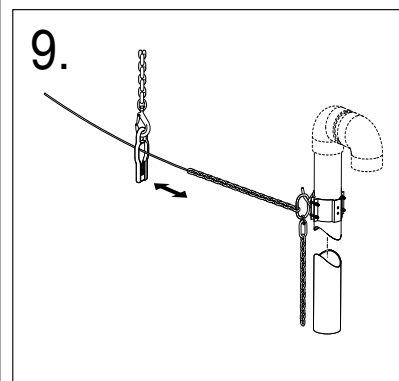
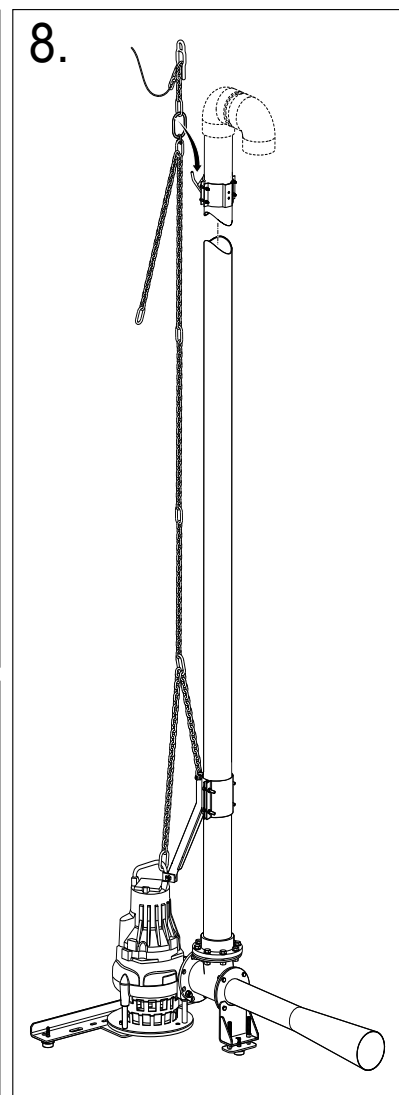
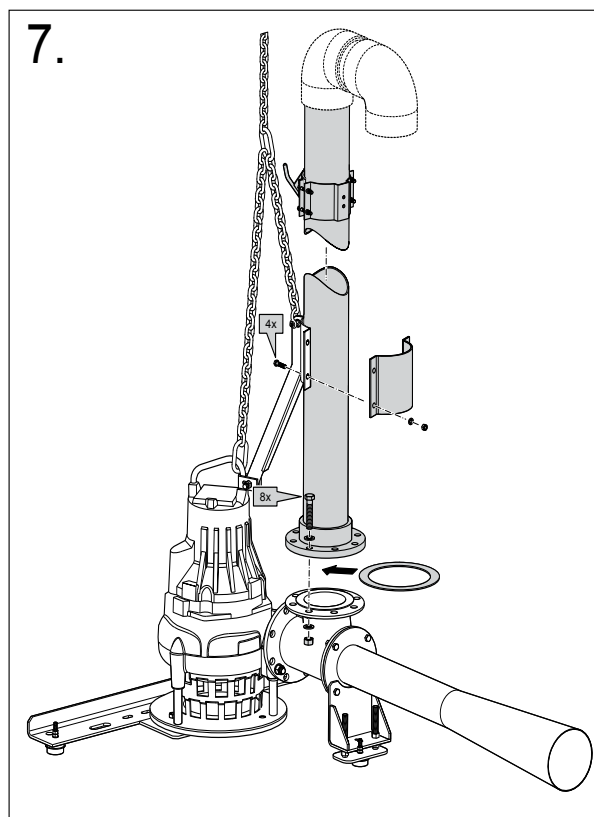
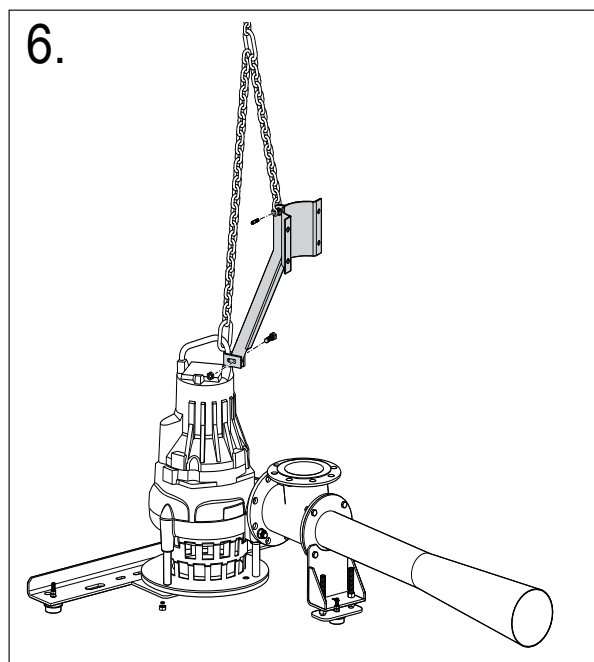


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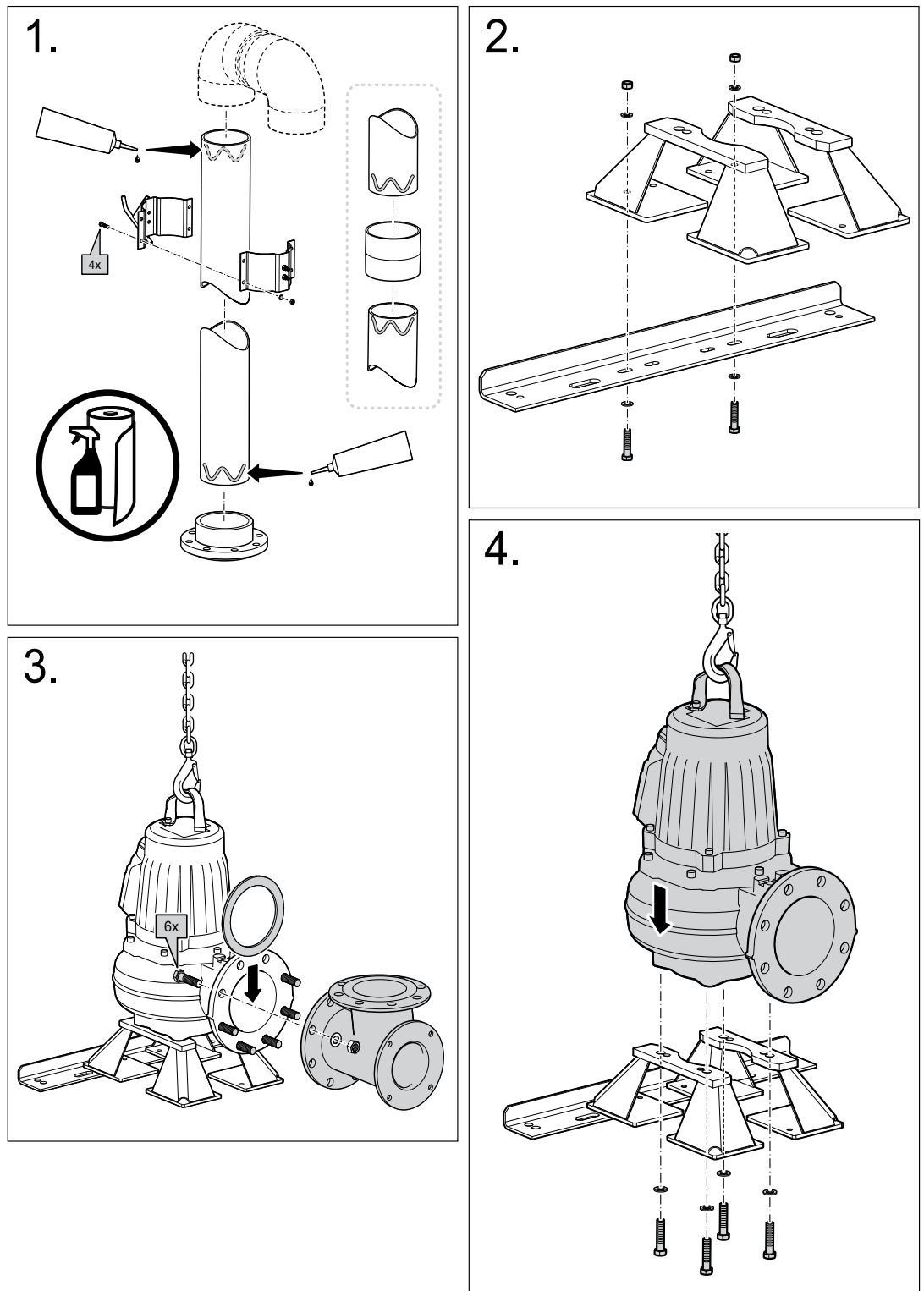
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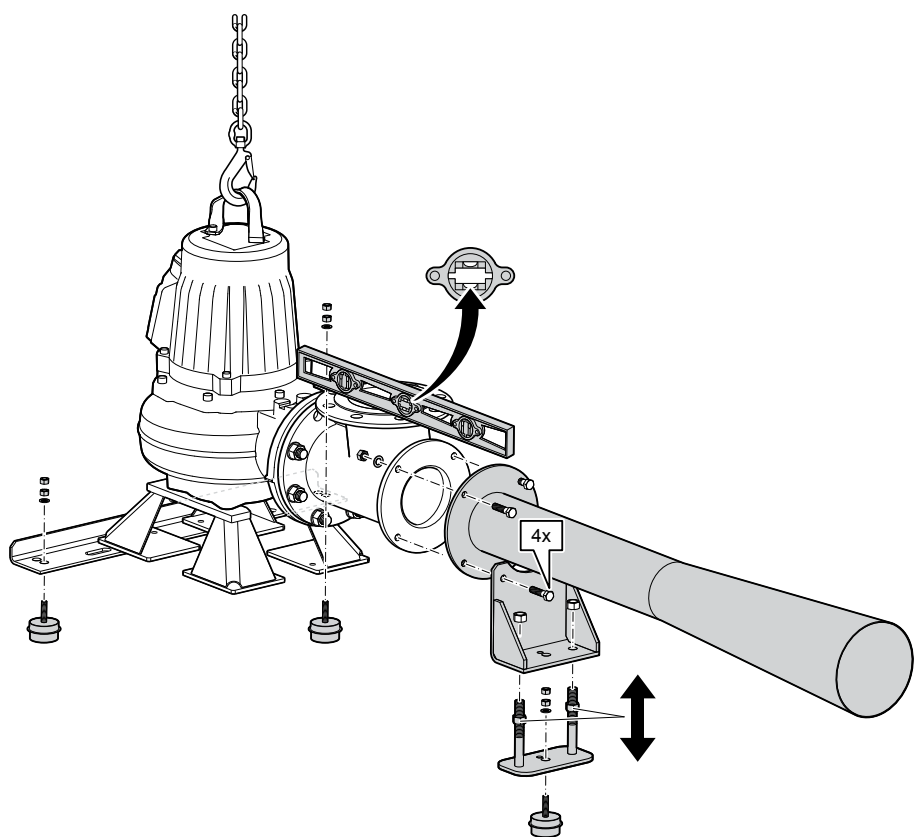


JA 112, 3102, S-installation

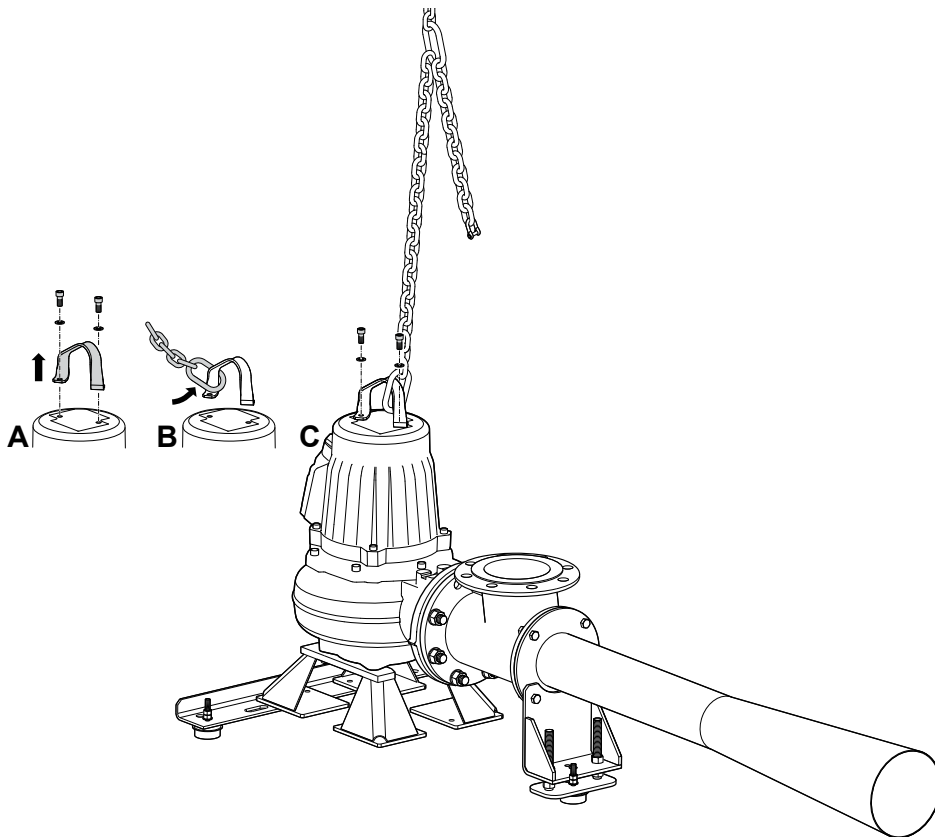
Assemble JA 112 with pump 3102 MT.

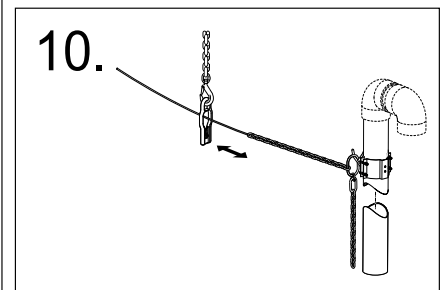
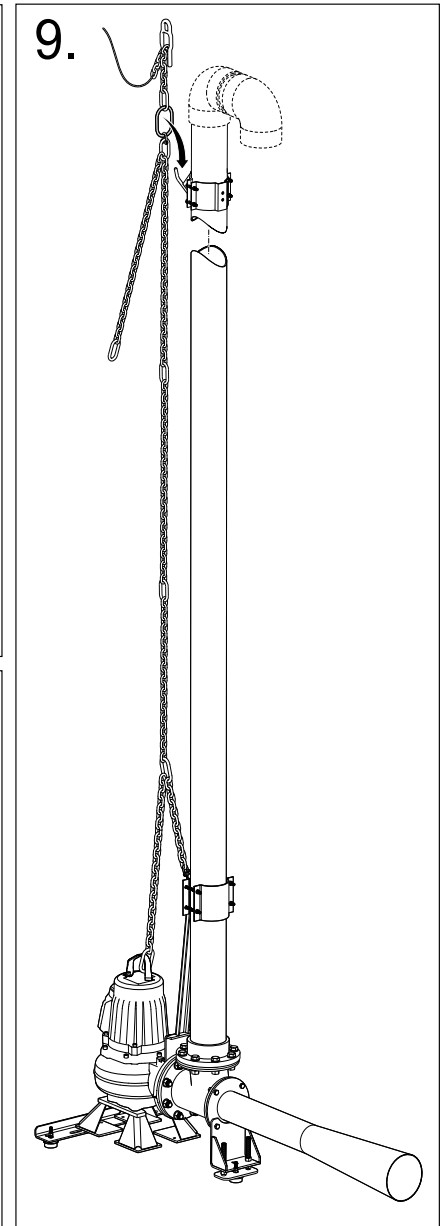
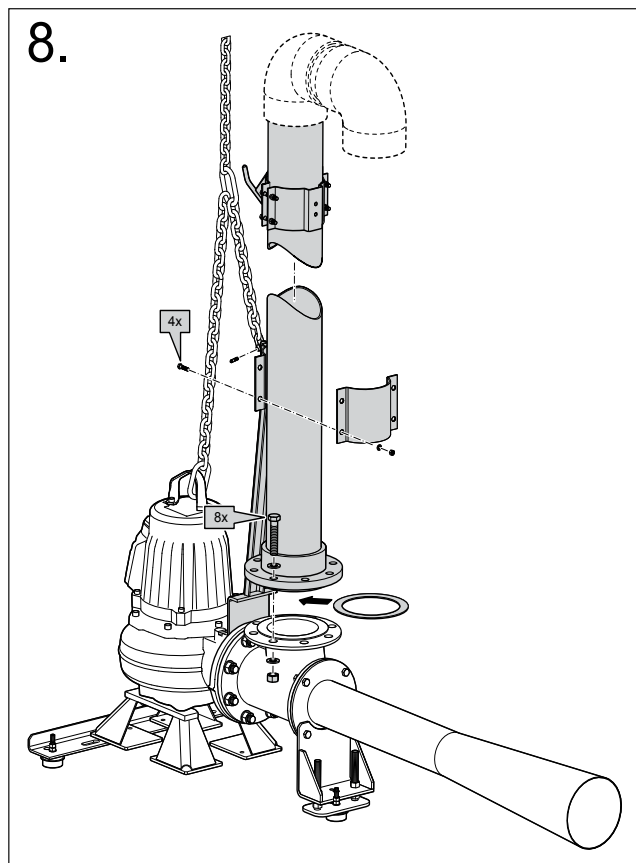
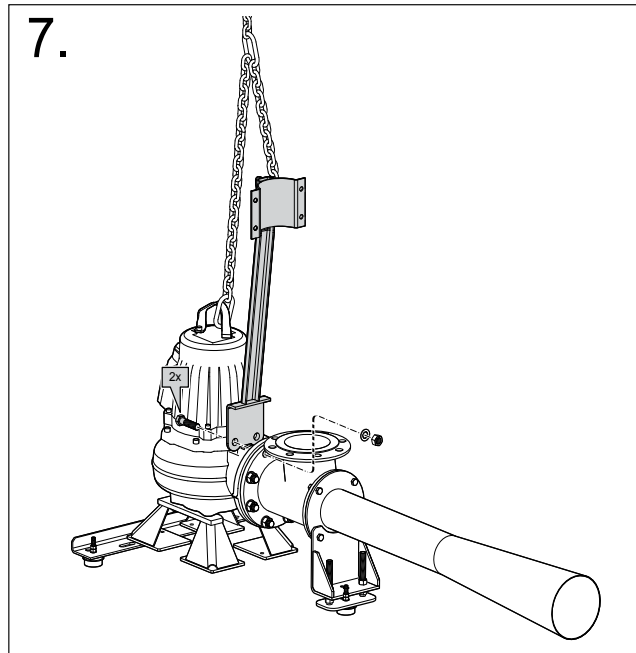


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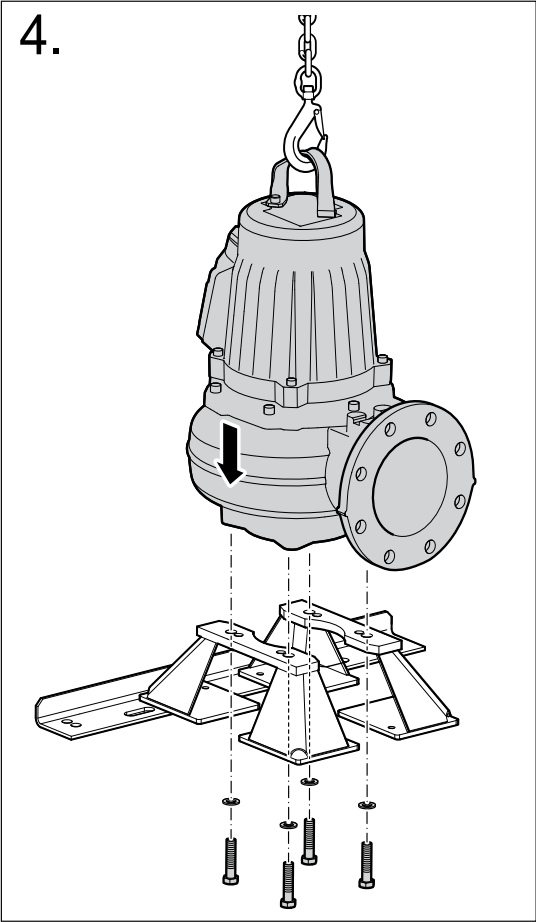
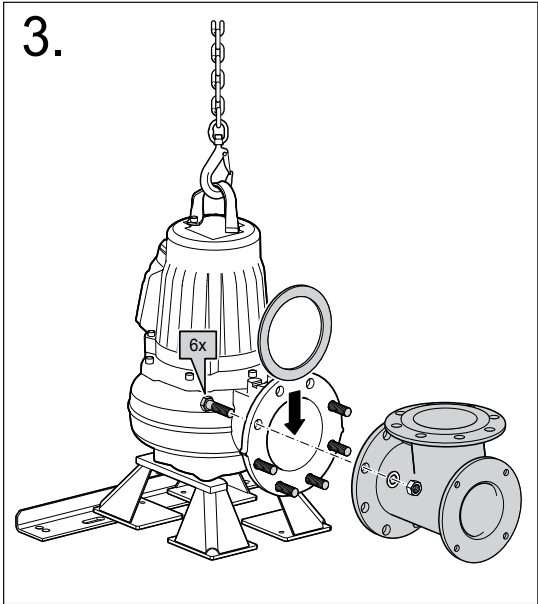
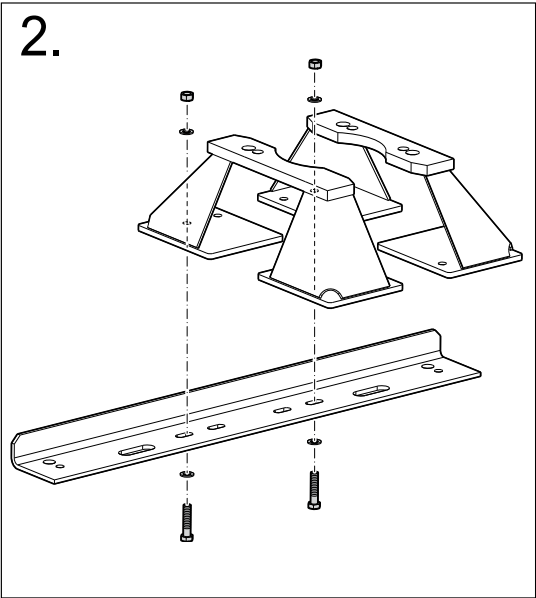
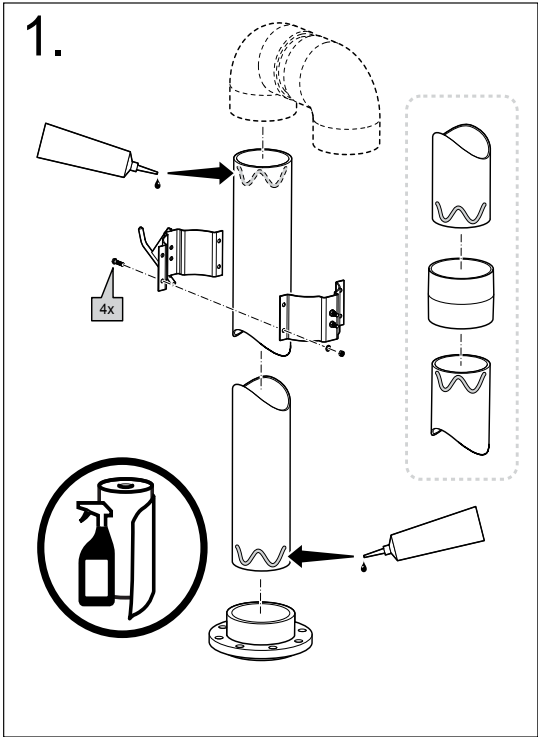
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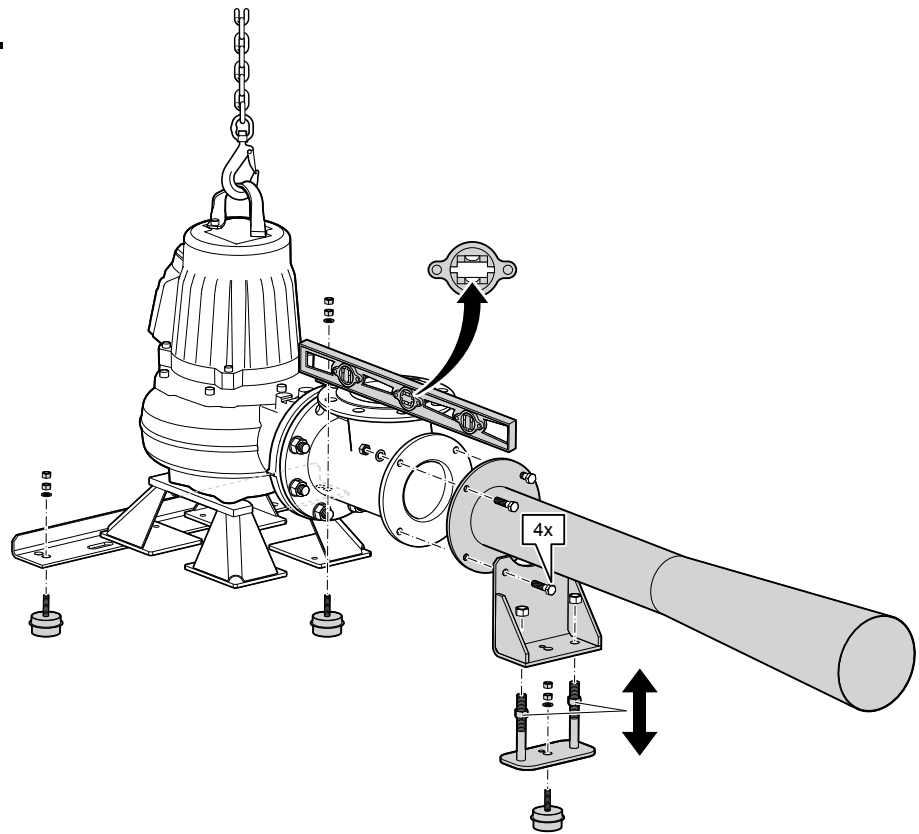


JA 117, 3127, S-installation

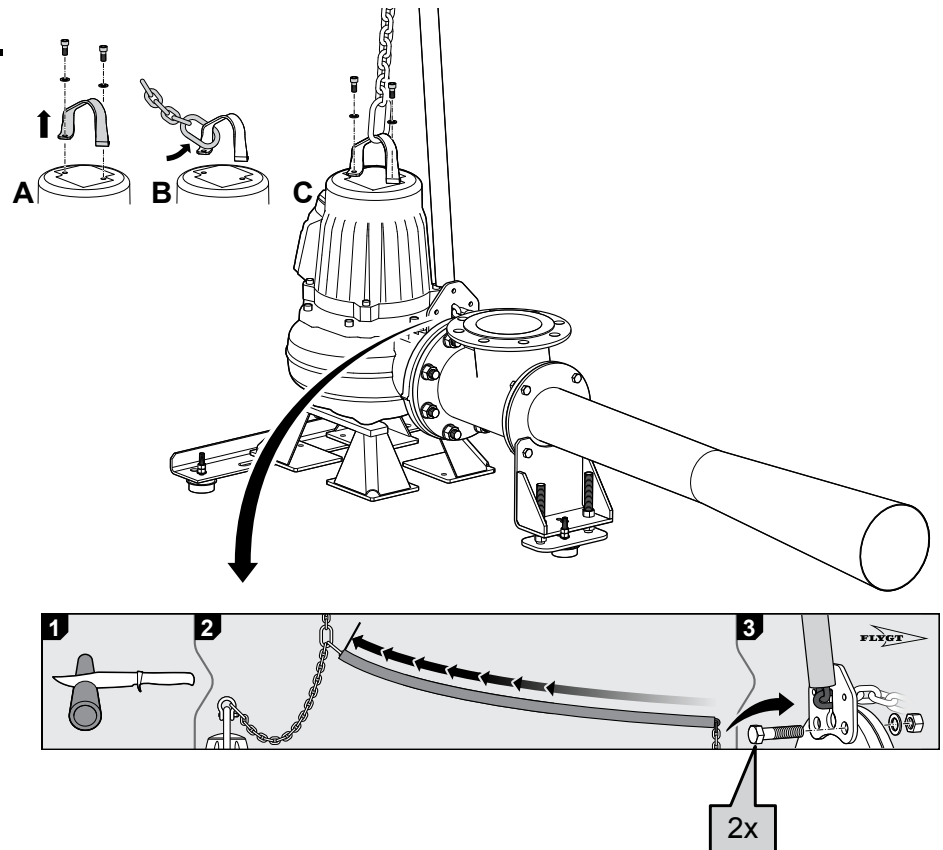
Assemble JA 117 with pump 3127 LT.

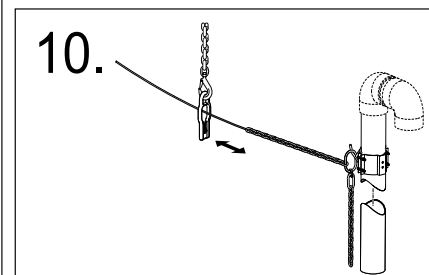
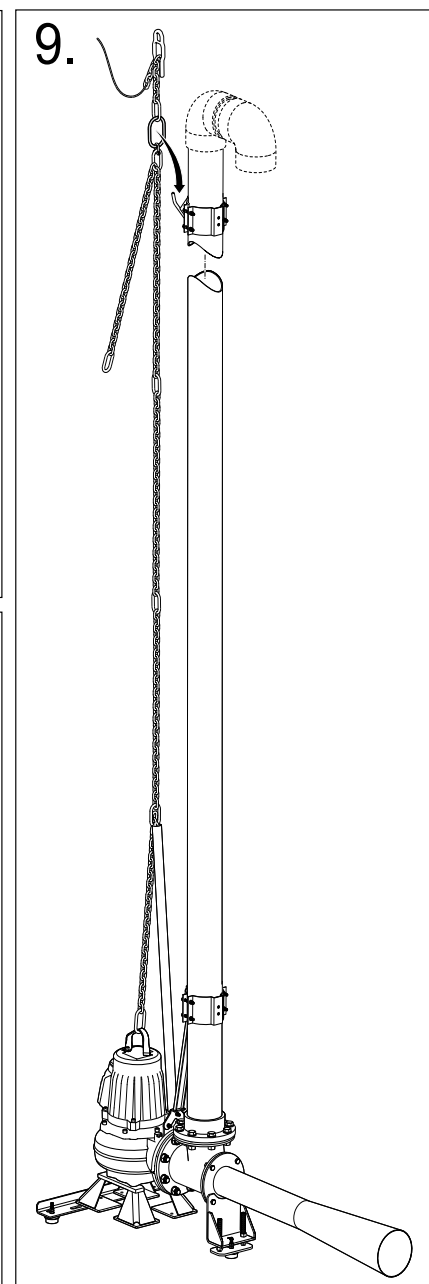
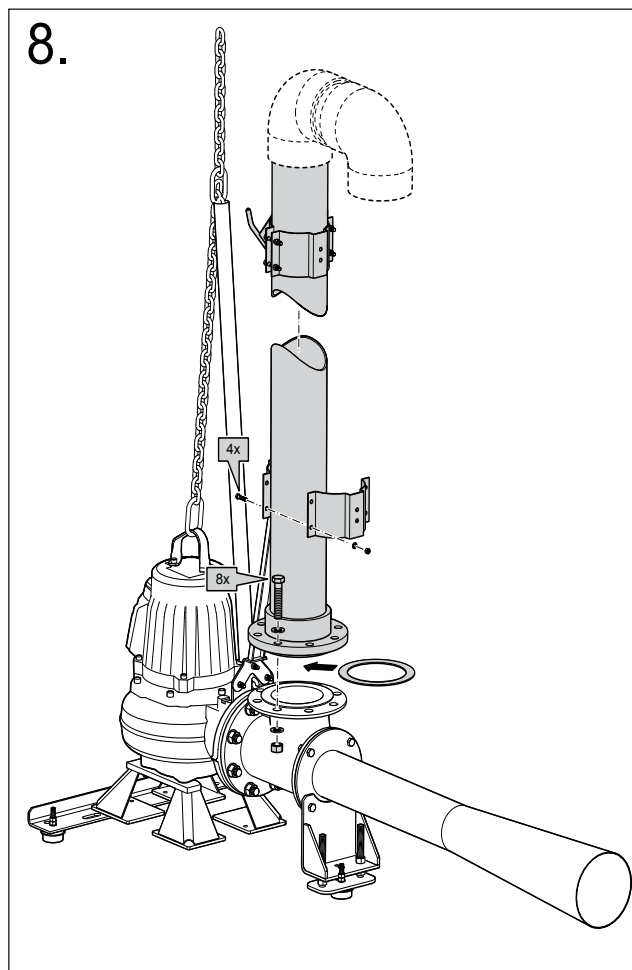
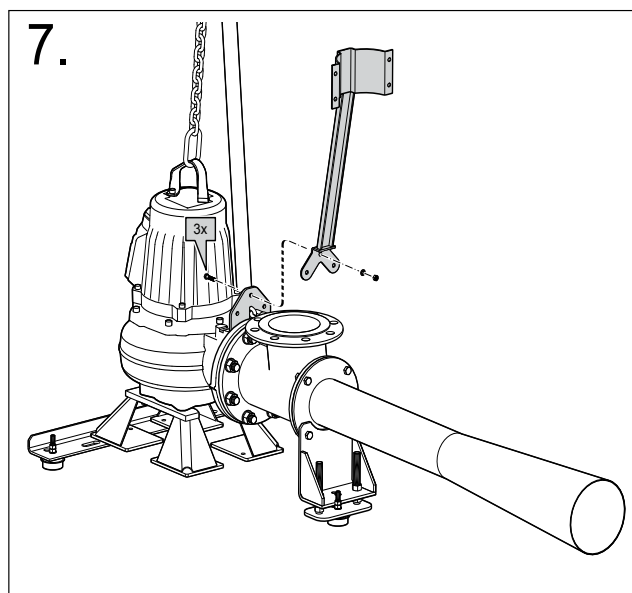


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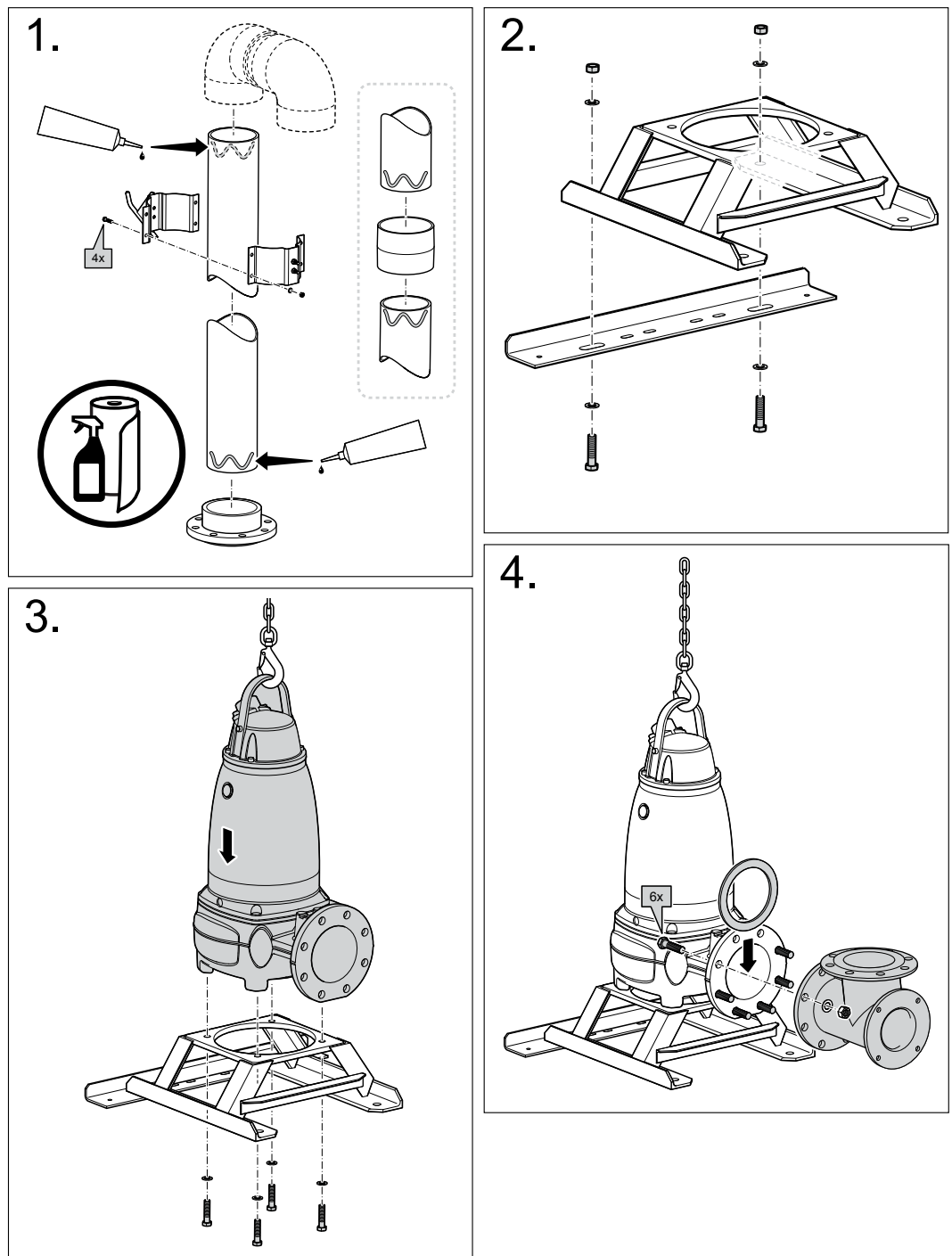
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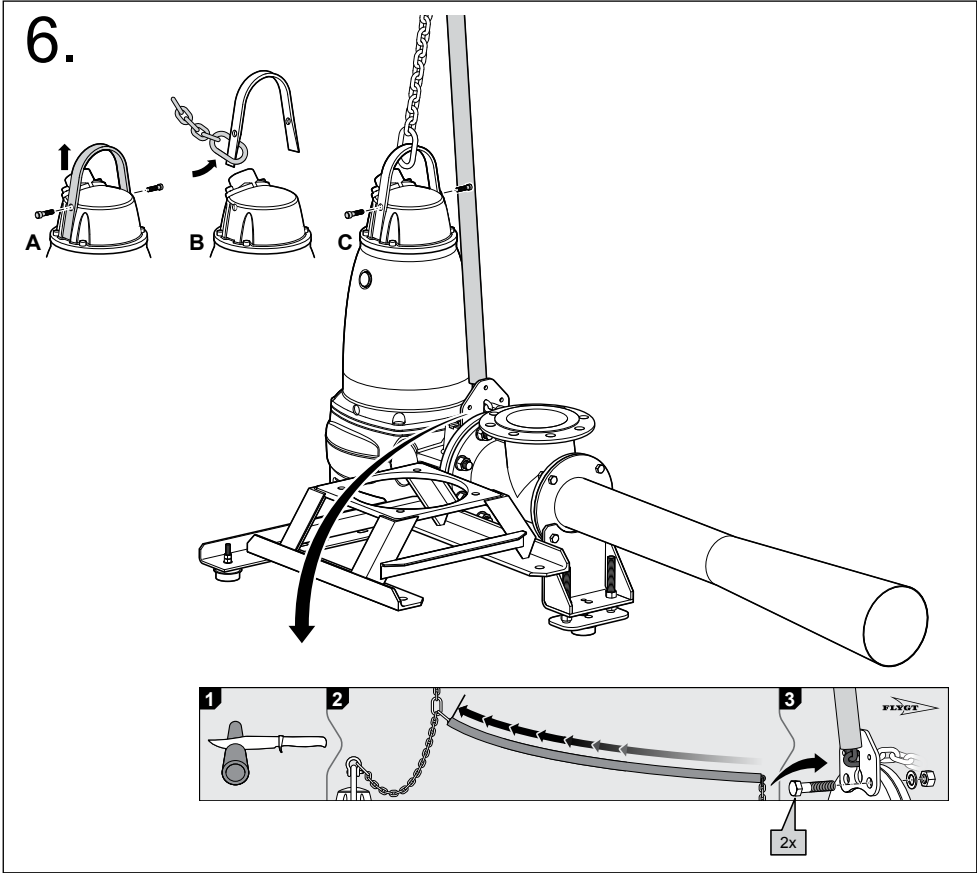
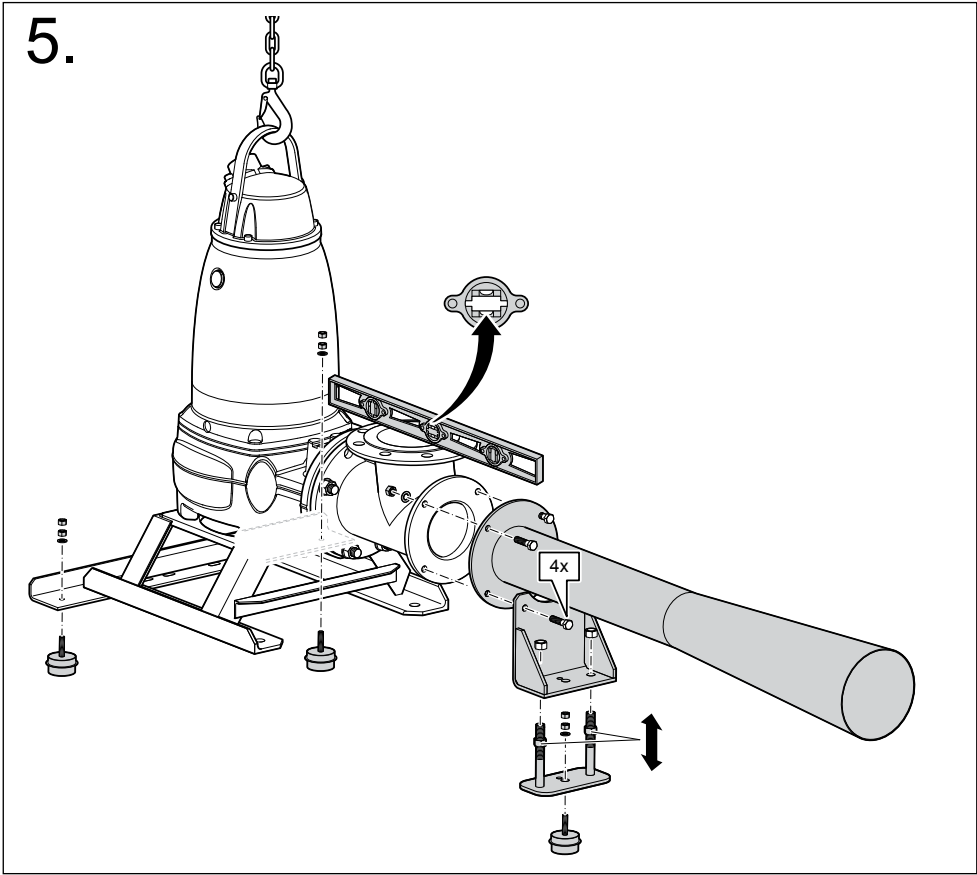


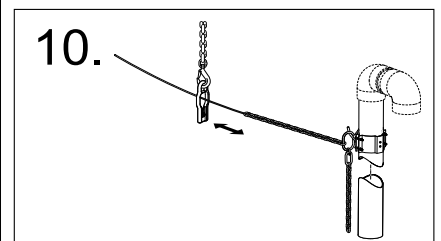
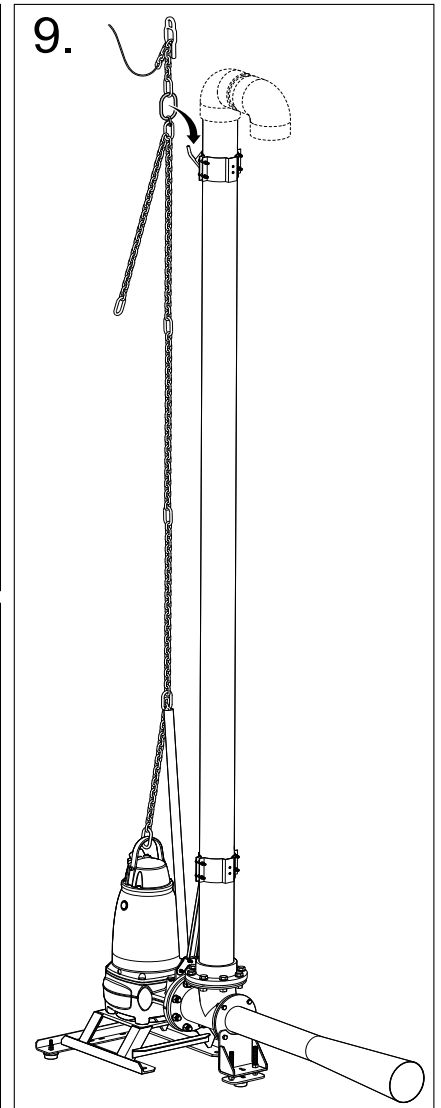
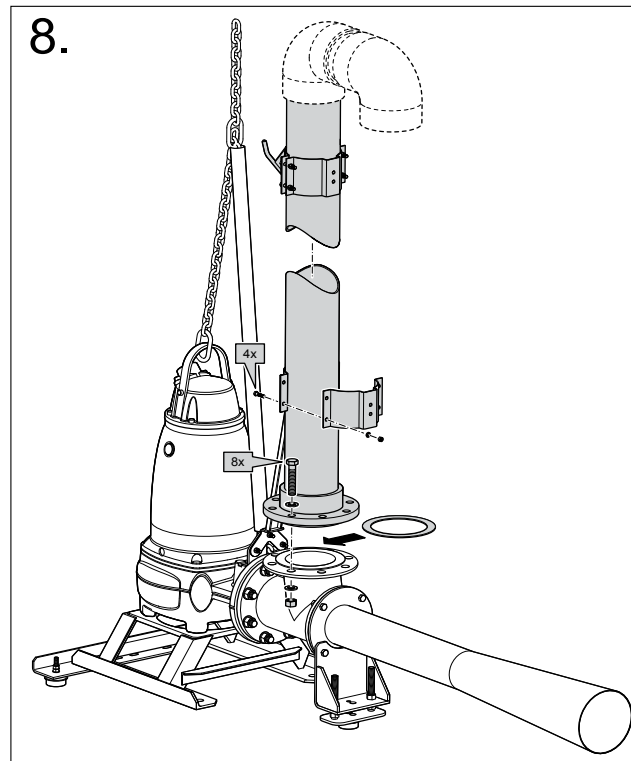
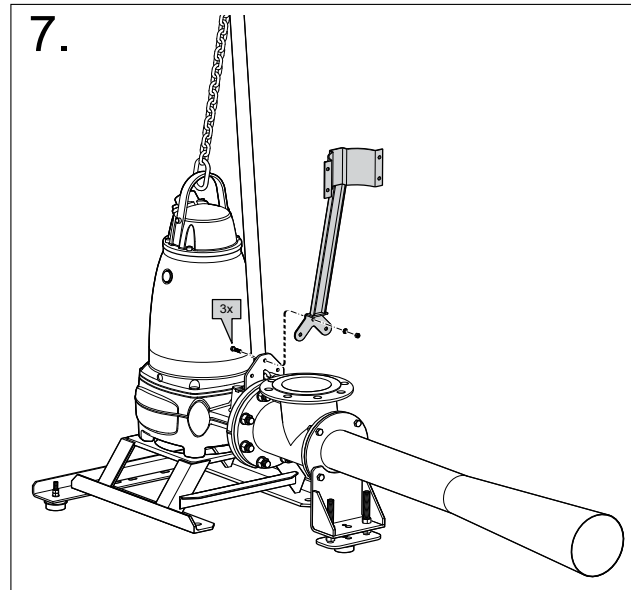


JA 117, 3153 and 3171, S-installation

Assemble JA 117 with pump 3153 MT and 3171 MT.

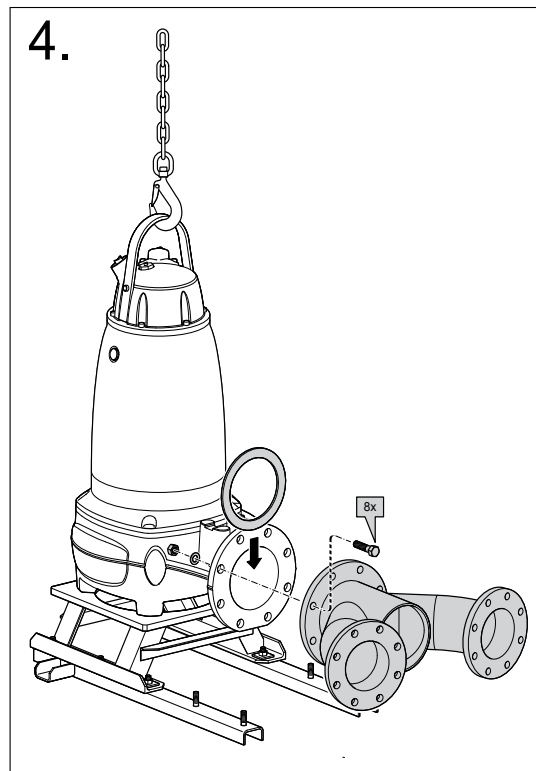
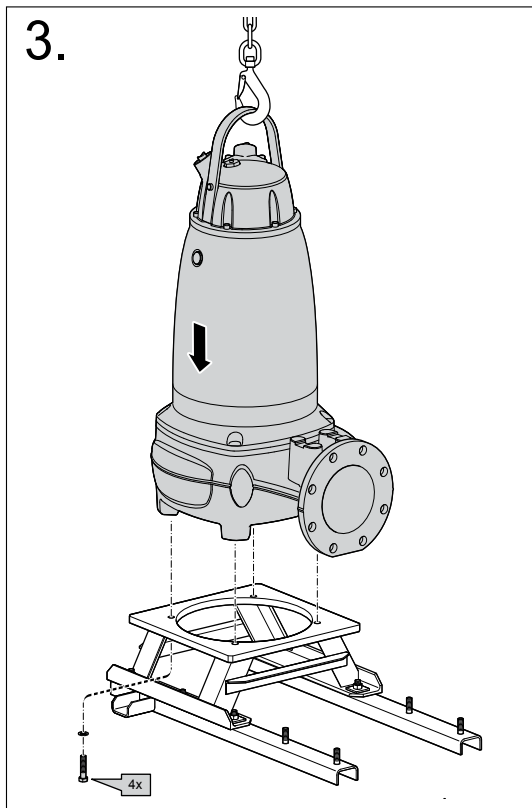
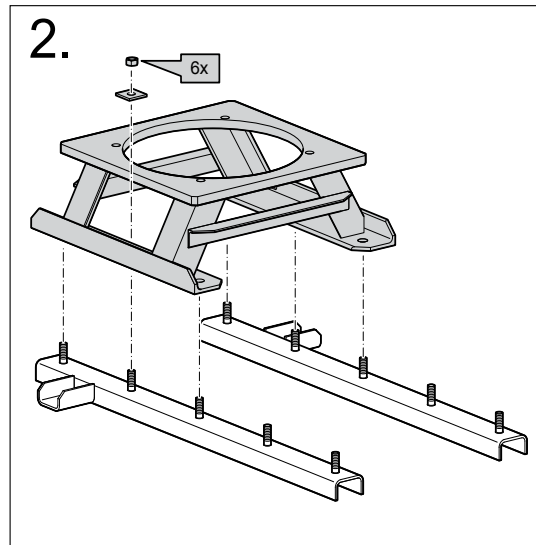
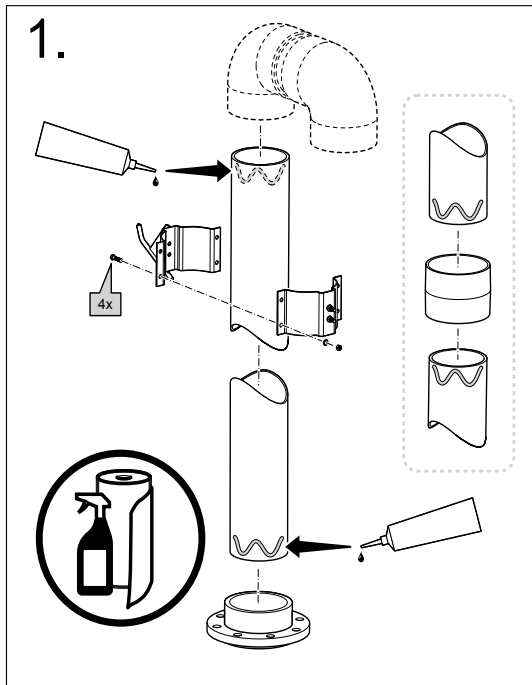


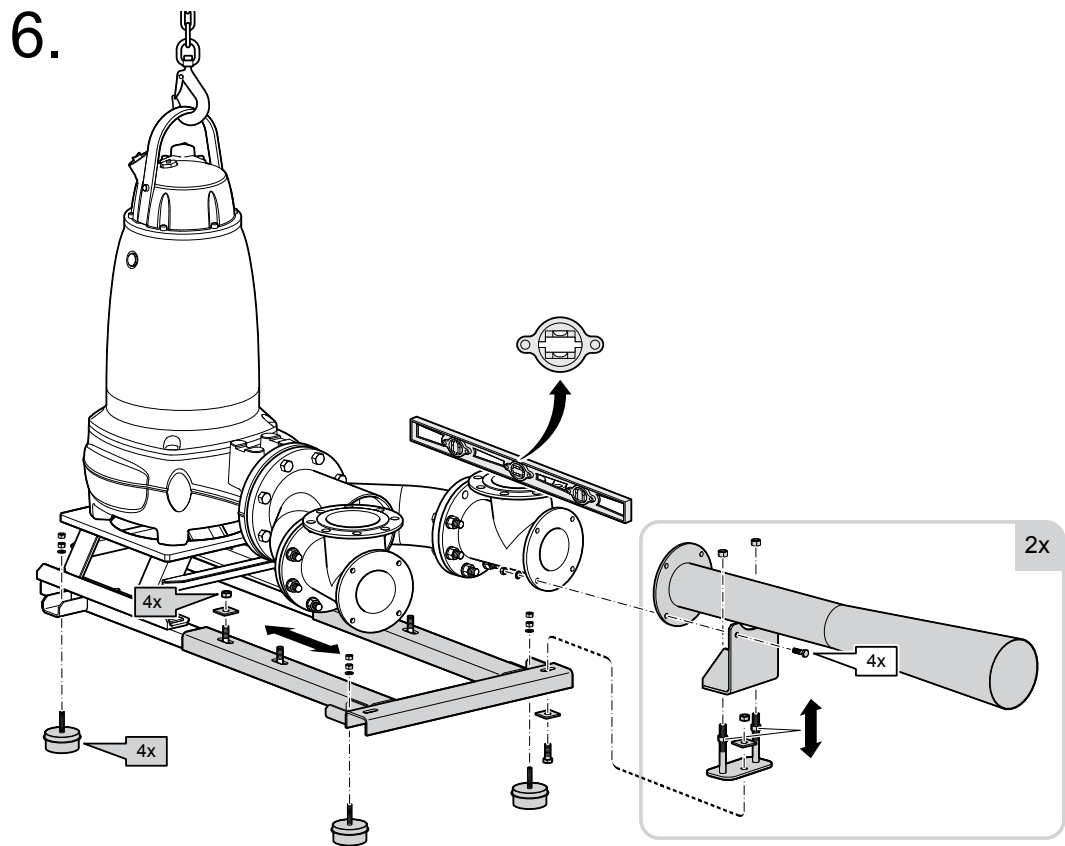




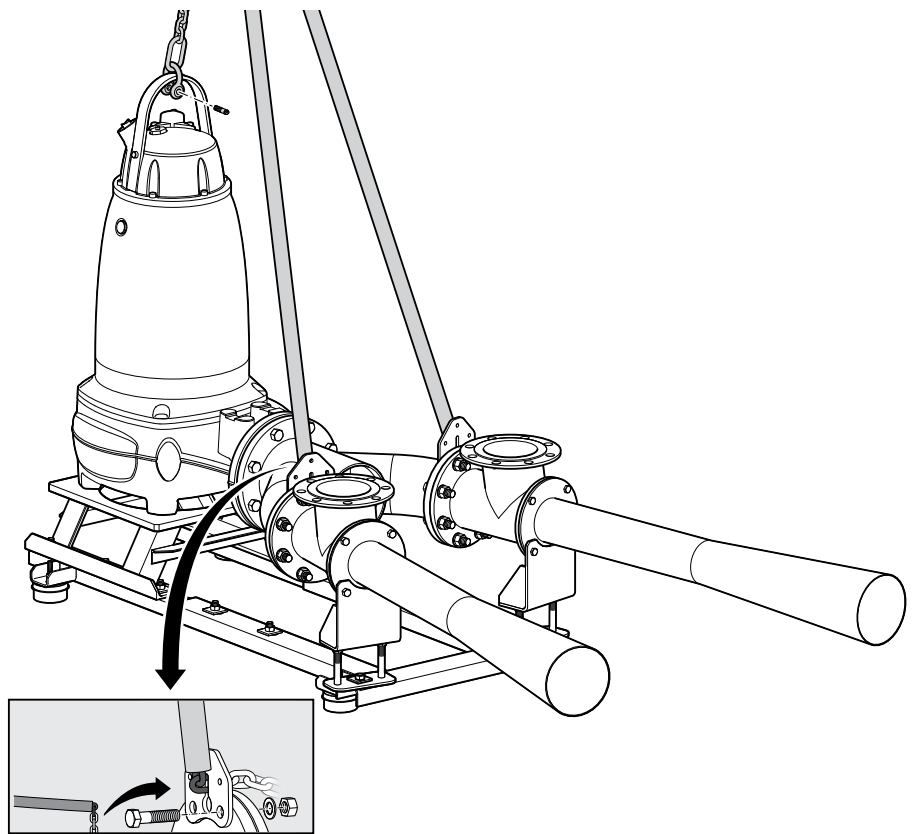
JA 217, S-installation

Assemble JA 217 with pump 3202 MT.

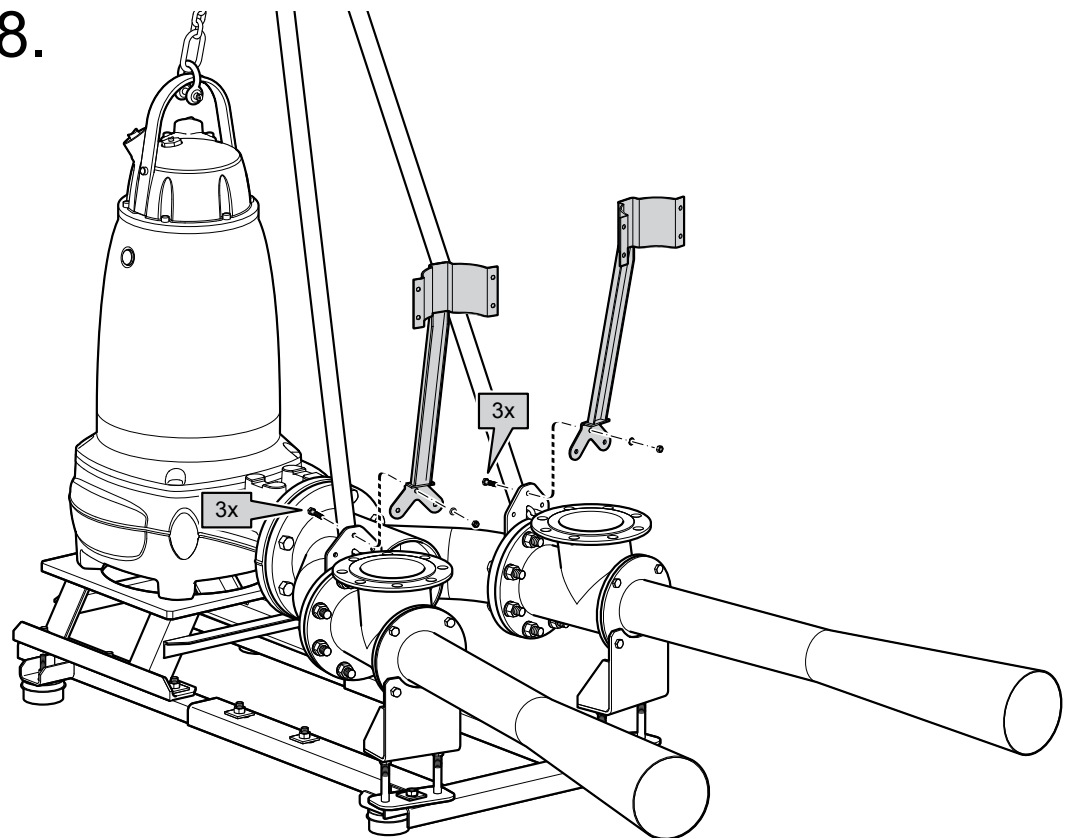


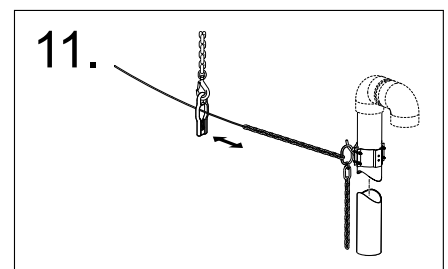
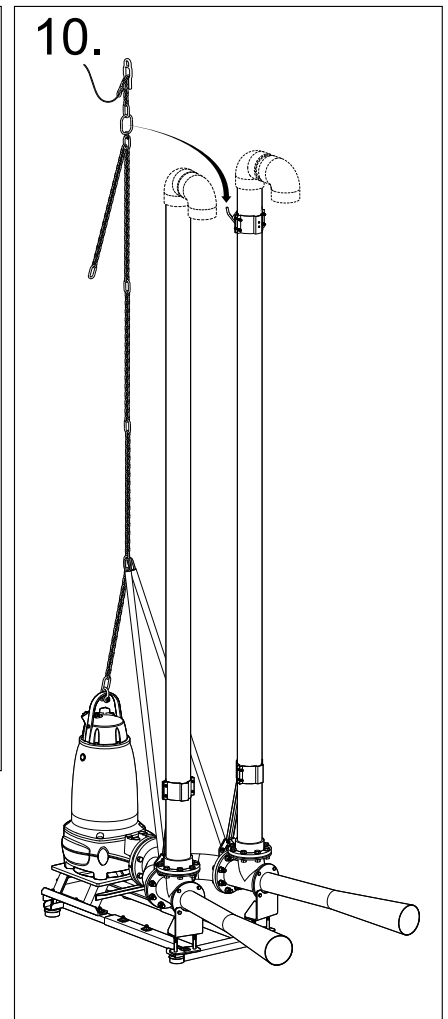
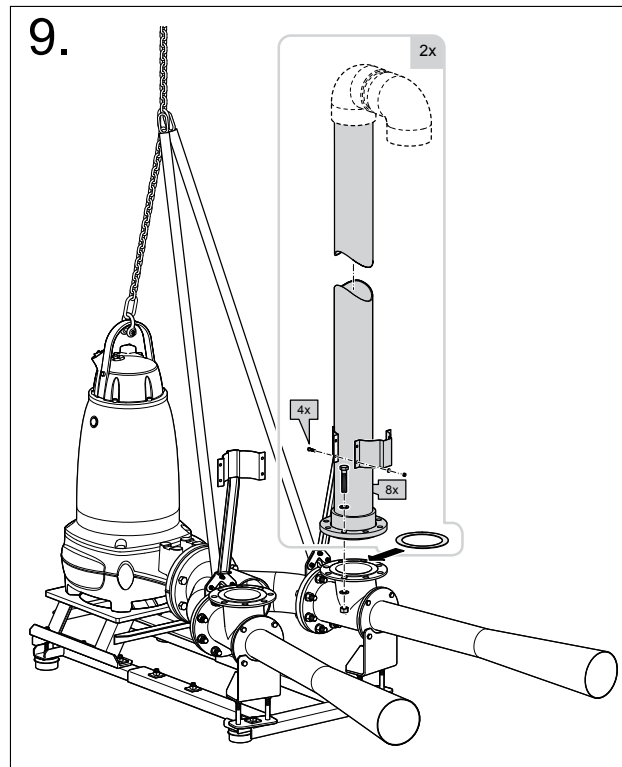


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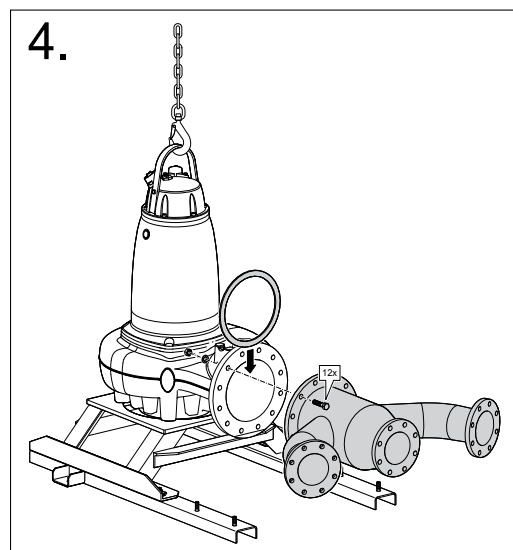
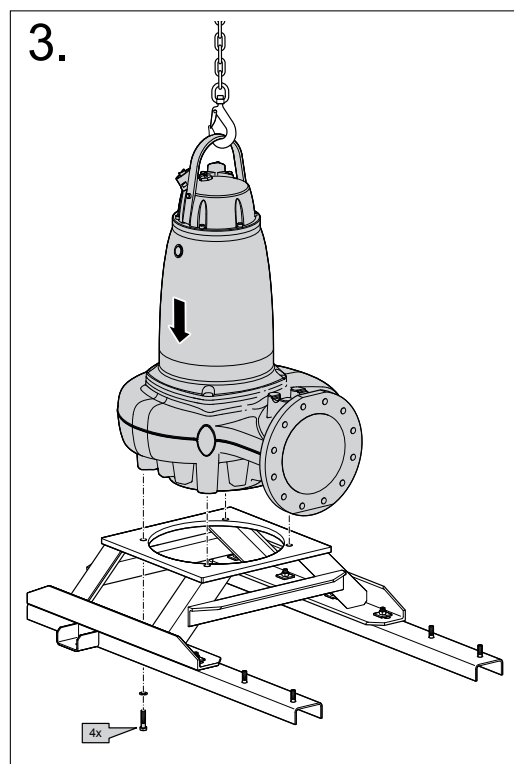
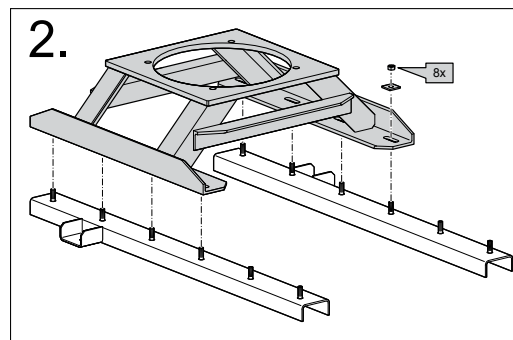
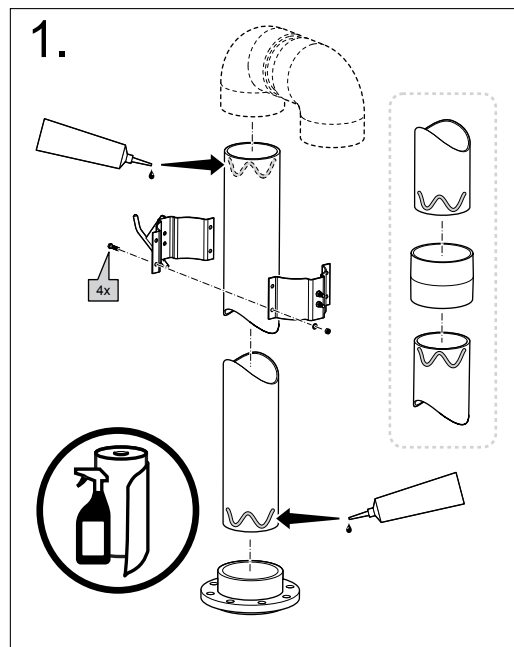
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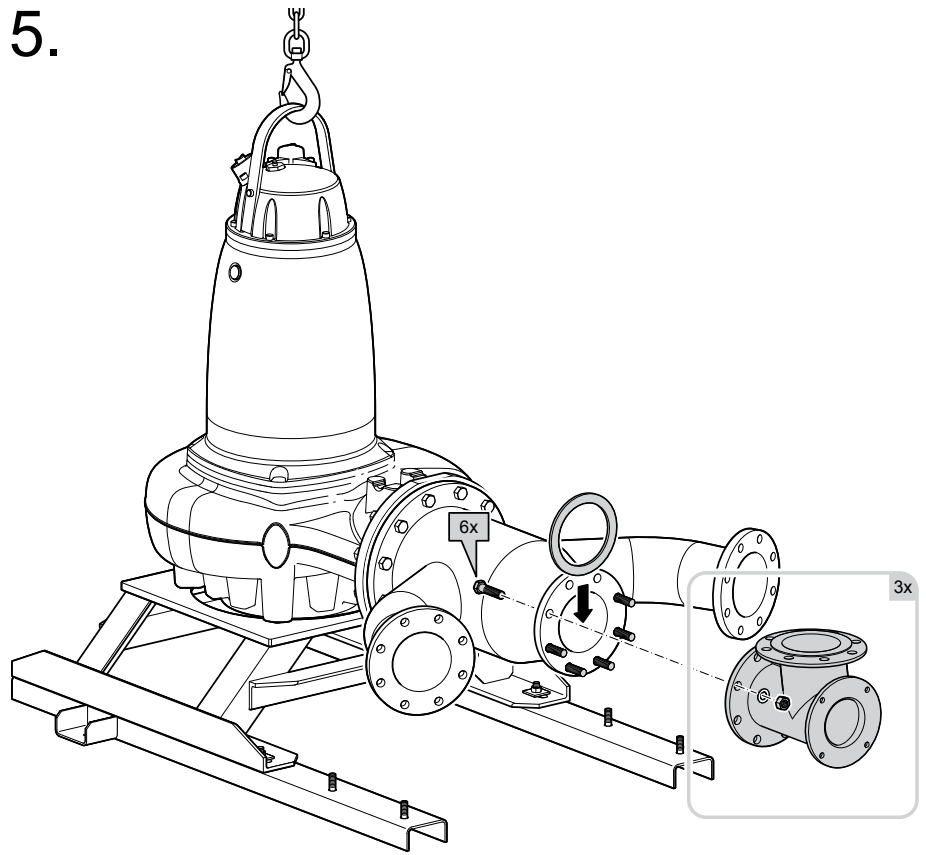


JA 317, S-installation

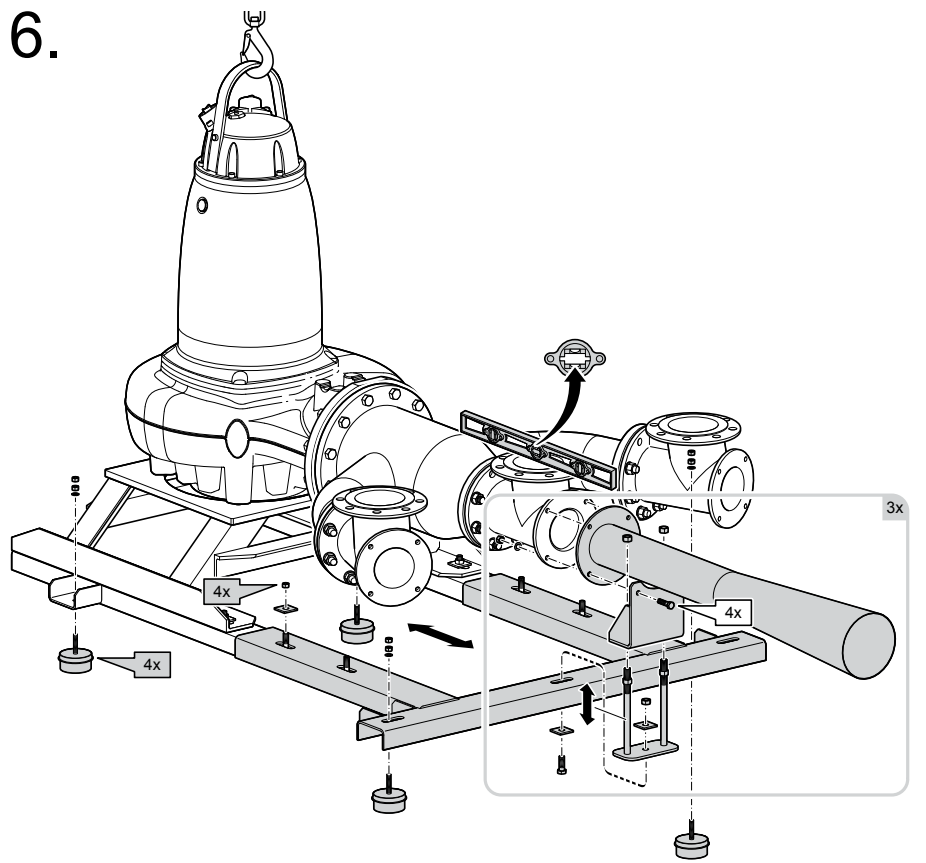
Assemble JA 317 with pump 3202 LT.

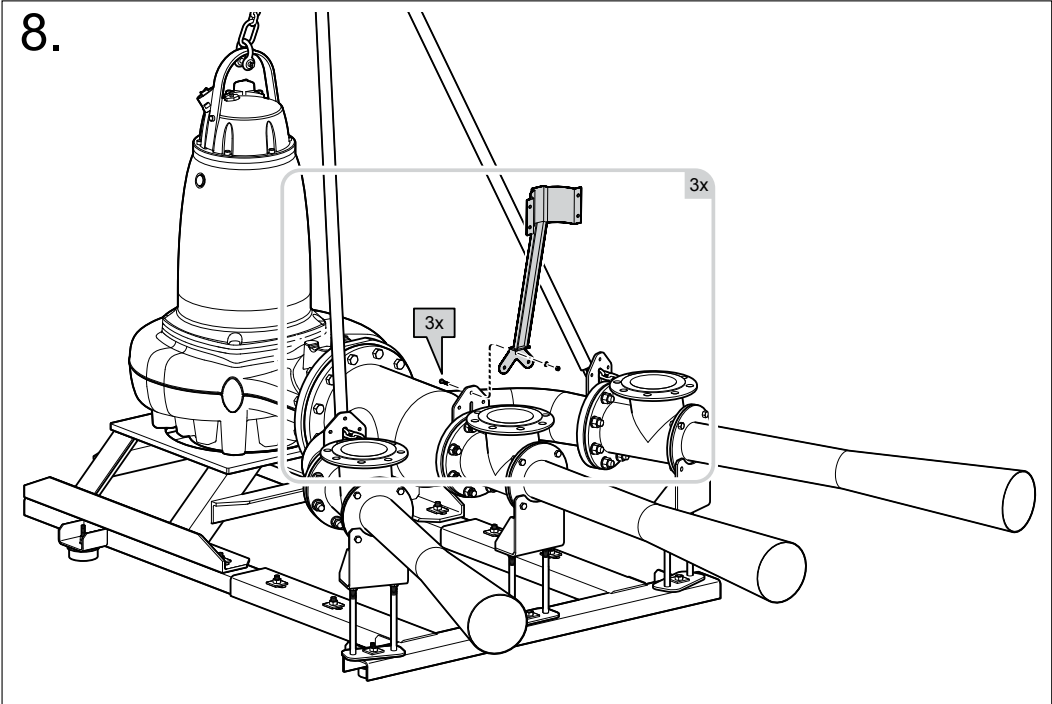
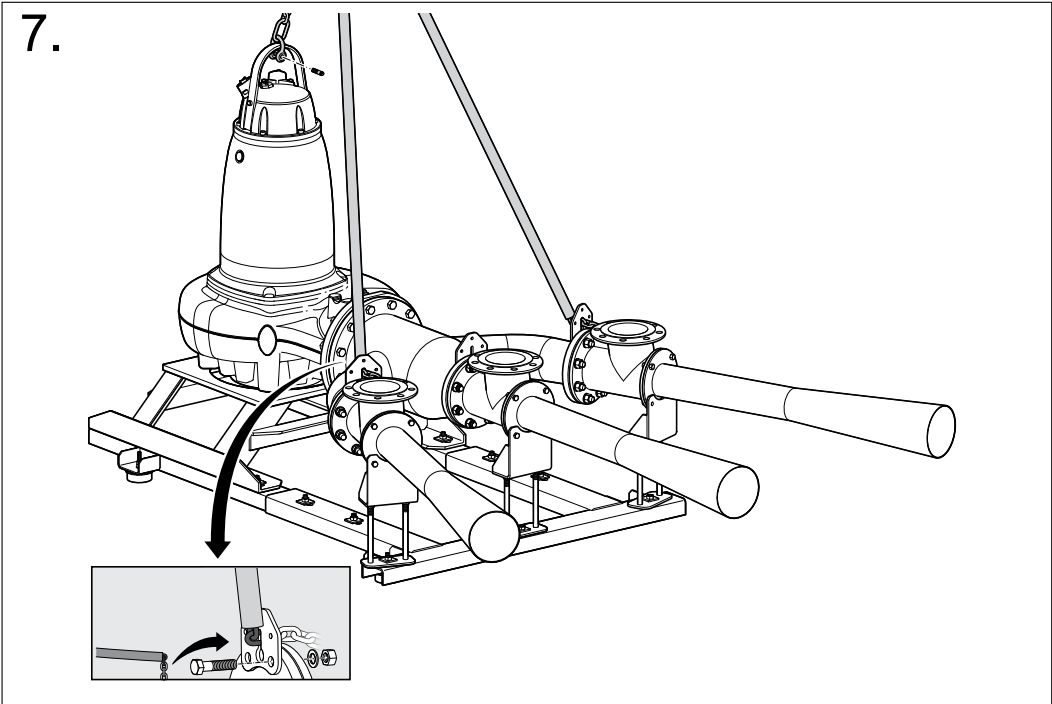


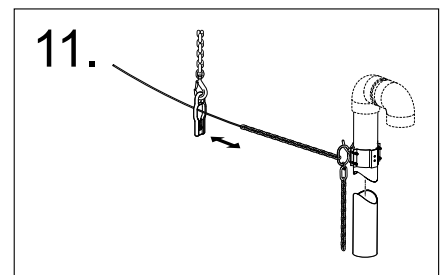
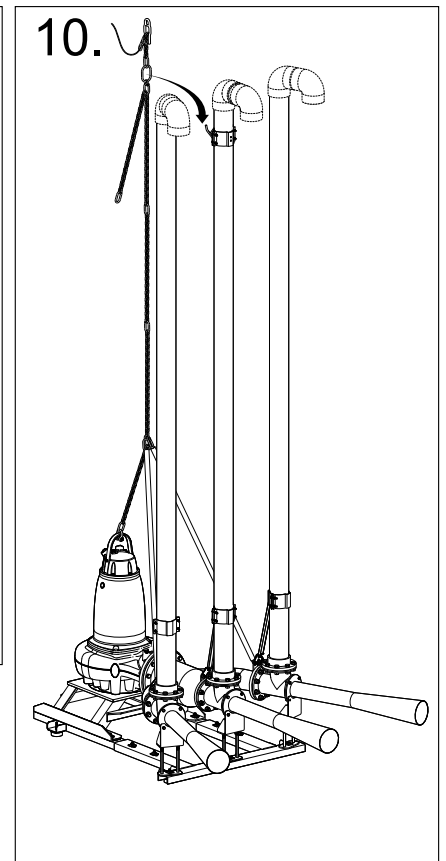
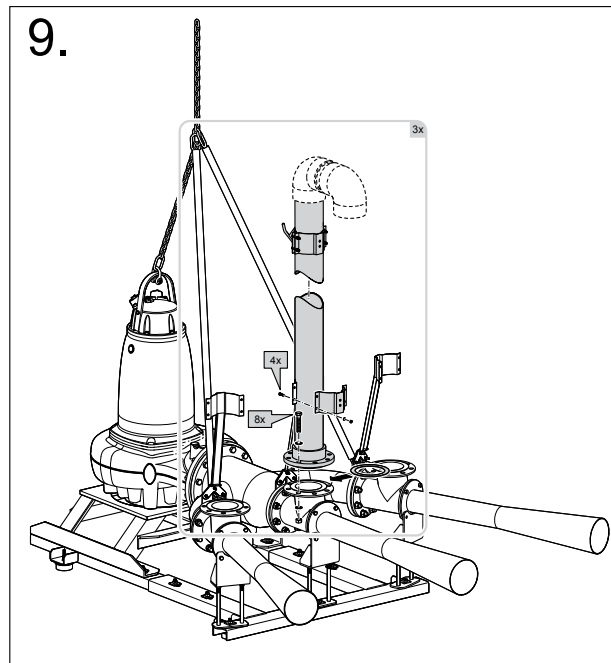
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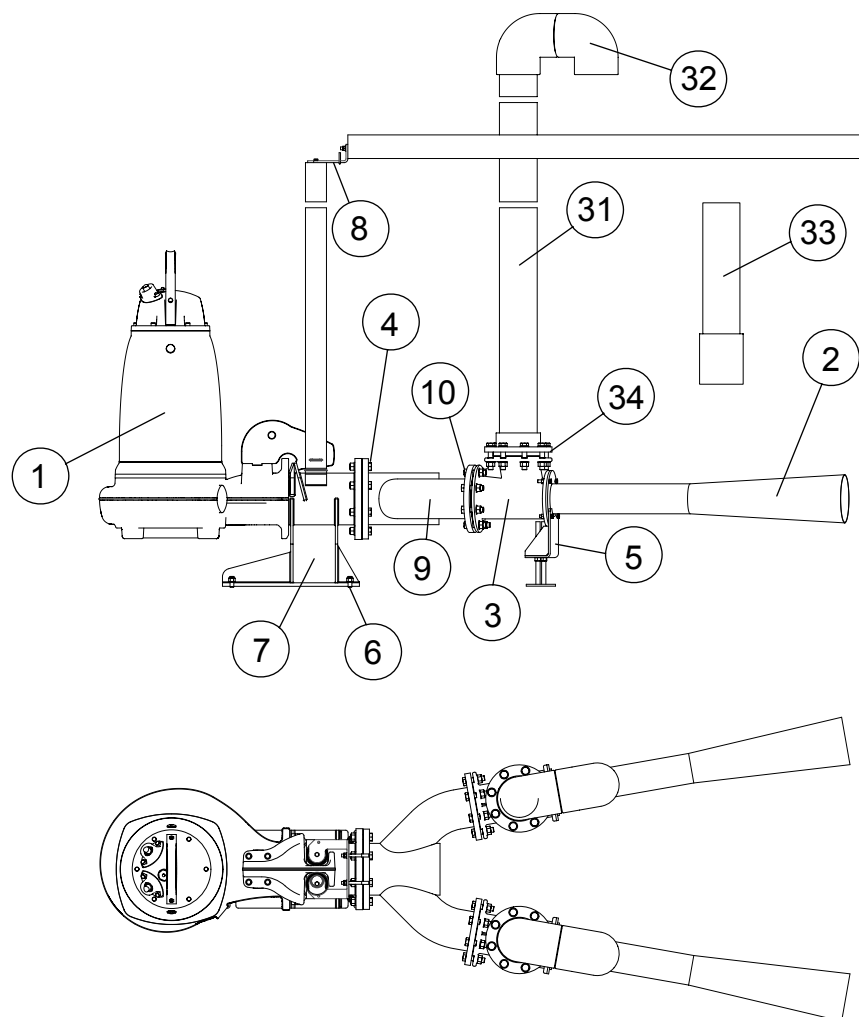






List of Parts

P-installation, exploded view



P-installation, parts list tables

JA 112 with pumps NP 3085 MT, NP 3102 MT

Pos. No.	Denomination	Part No. 727 45 21, galvanized steel, consisting of:	Part No. 727 45 51, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 82 00	687 82 00	1
3	Ejector housing	687 80 00	687 80 01	1
4	Flange kit DN100	84 93 18	84 93 18	1
5	Holder	727 82 00	727 82 01	1
6	Mounting kit	84 14 88	84 14 88	1
7	Discharge connection	688 35 00	688 35 01	1
8	Guide bracket set	670 05 01	670 05 02	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1m)	727 98 01	727 98 01	1	-
32**	Pipe bend	728 00 01	728 00 01	1	-
33**	Pipe extension kit (1x1 m)	727 98 11	727 98 11	1	-
34**	Flange kit (PVC-U)	727 99 01	727 99 01	1	-

** Option

JA 117 with pumps NP 3127 LT, NP 3153 MT, NP 3171 MT

Pos. No.	Denomination	Part No. 727 53 21, galvanized steel, consisting of:	Part No. 727 53 51, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	1
3	Ejector housing	687 78 00	687 78 01	1
4	Flange kit DN150	84 93 19	84 93 19	1
5	Holder	727 81 00	727 81 01	1
6	Mounting kit	84 14 88	84 14 88	1
7	Discharge connection	688 32 00	688 32 01	1
8	Guide bracket set	670 05 01	670 05 02	1

Pos. No.	Denomination	Part No., galvanized steel	Part No., stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1m)	727 98 00	727 98 00	1	-
32**	Pipe bend	728 00 00	728 00 00	1	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	1	-
34**	Flange kit PVC-U	727 99 00	727 99 00	1	-

** Option

JA 217 with pump NP 3202 MT

Pos. No.	Denomination	Part No. 727 65 21, galvanized steel, consisting of:	Part No. 727 65 51, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	2
3	Ejector housing	687 78 00	687 78 01	2
4	Flange kit DN200	84 93 20	84 93 20	1
5	Holder	727 81 00	727 81 01	2
6	Mounting kit M16	84 14 88	84 14 88	1
7	Discharge connection	688 33 00	688 33 01	1
8	Guide bracket set	670 05 05	670 05 06	1
9	Connection pipe	688 26 00	688 26 01	1
10	Flange kit DN150	728 05 00	728 05 00	2

Pos. No.	Denomination	Part No., galvanized steel	Part No., stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1m)	727 98 00	727 98 00	2	-
32**	Pipe bend	728 00 00	728 00 00	2	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	2	-
34**	Flange kit PVC-U	727 99 00	727 99 00	2	-

** Option

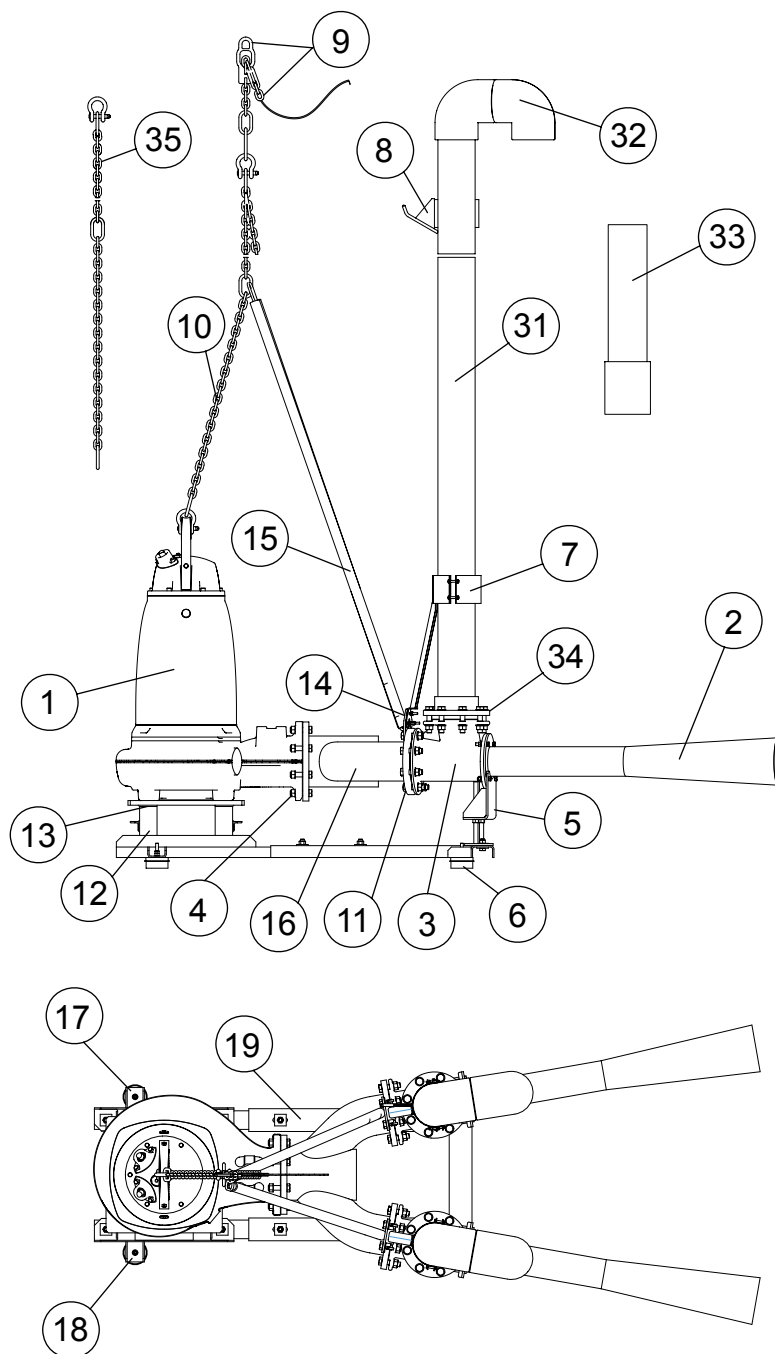
JA 317 with pump NP 3202 LT

Pos. No.	Denomination	Part No. 727 69 21, galvanized steel, consisting of:	Part No. 727 69 51, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	3
3	Ejector housing	687 78 00	687 78 01	3
4	Flange kit DN300	84 93 21	84 93 21	1
5	Holder	727 81 10	727 81 11	3
6	Mounting kit M16	84 14 88	84 14 88	1
7	Discharge connection	688 81 00	688 81 01	1
8	Guide bracket set	670 05 05	670 05 06	1
9	Connection pipe	688 78 00	688 78 01	1
10	Flange kit DN150	84 93 19	84 93 19	3

Pos. No.	Denomination	Part No., galvanized steel	Part No., stainless steel	Qty.	Remark
1	Pump			1	To be ordered separately
31**	Pipe unit PVC-U (4x1m)	727 98 00	727 98 00	3	
32**	Pipe bend	728 00 00	728 00 00	3	
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	3	
34**	Flange kit PVC-U	727 99 00	727 99 00	3	

** Option

S-installation, exploded view



S-installation, parts list tables

JA 112 with pump NS 3085 MT

Pos. No.	Denomination	Part No. 727 45 20, galvanized steel, consisting of:	Part No. 727 45 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 82 00	687 82 00	1
3	Ejector housing	687 80 00	687 80 01	1
4	Flange kit DN80	84 93 17	84 93 17	1
5	Holder	727 82 00	727 82 01	1

Pos. No.	Denomination	Part No. 727 45 20, galvanized steel, consisting of:	Part No. 727 45 50, stainless steel, consisting of:	Qty.
6	Damper	687 72 10	687 72 10	3
7	Holder	727 87 00	727 87 00	1
8	Holder complete	727 85 00	727 85 00	1
9	Lifting eye unit	728 11 00	728 12 00	1
10	Chain sling unit	83 94 85	83 94 87	1
11	Stand part complete	727 80 10	727 80 11	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 01	727 98 01	1	-
32**	Pipe bend	728 00 01	728 00 01	1	-
33**	Pipe extension kit (1x1 m)	727 98 11	727 98 11	1	-
34**	Flange kit PVC-U	727 99 01	727 99 01	1	-

** Option

JA 112 with pump NS 3102 MT

Pos. No.	Denomination	Part No. 727 49 20, galvanized steel, consisting of:	Part No. 727 49 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 82 00	687 82 00	1
3	Ejector housing	687 80 00	687 80 01	1
4	Flange kit DN100	84 93 18	84 93 18	1
5	Holder	727 82 00	727 82 01	1
6	Damper	687 72 10	687 72 10	3
7	Holder	727 91 00	727 91 00	1
8	Holder complete	727 85 00	727 85 00	1
9	Lifting eye unit	728 11 00	728 12 00	1
10	Chain sling unit	83 94 85	83 94 87	1
11	Stand part complete	727 80 00	727 80 01	1
12	Stand complete	688 11 00	688 11 01	2
13	Mounting kit	84 93 24	84 93 24	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 01	727 98 01	1	-
32**	Pipe bend	728 00 01	728 00 01	1	-
33**	Pipe extension kit (1x1 m)	727 98 11	727 98 11	1	-
34**	Flange kit PVC-U	727 99 01	727 99 01	1	-

** Option

JA 117 with pump NS 3127 LT

Pos. No.	Denomination	Part No. 727 53 20, galvanized steel, consisting of:	Part No. 727 53 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	1
3	Ejector housing	687 78 00	687 78 01	1
4	Flange kit DN150	84 93 19	84 93 19	1
5	Holder	727 81 00	727 81 01	1
6	Damper	687 72 11	687 72 11	3
7	Holder	727 92 00	727 92 00	1
8	Holder complete	727 86 00	727 86 00	1
9	Lifting eye unit	728 11 00	728 12 00	1
10	Chain sling unit	83 94 84	83 94 86	1
11	Stand part complete	727 80 00	727 80 01	1
12	Stand complete	688 11 00	688 11 01	2
13	Mounting kit	84 93 22	84 93 22	1
14	Bracket	727 73 00	727 73 00	1
15	Hose DN25	728 14 00	728 14 00	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 00	727 98 00	1	-
32**	Pipe bend	728 00 00	728 00 00	1	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	1	-
34**	Flange kit PVC-U	727 99 00	727 99 00	1	-
35**	Chain sling 3 m	728 15 00	728 15 01	1	-

** Option

JA 117 with pump NS 3153 MT

Pos. No.	Denomination	Part No. 727 57 20, galvanized steel, consisting of:	Part No. 727 57 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	1
3	Ejector housing	687 78 00	687 78 01	1
4	Flange kit DN150	84 93 19	84 93 19	1
5	Holder	727 81 00	727 81 01	1
6	Damper	687 72 11	687 72 11	3
7	Holder	727 92 00	727 92 00	1
8	Holder complete	727 86 00	727 86 00	1
9	Lifting eye unit	728 11 00	728 12 00	1
10	Chain sling unit	83 94 84	83 94 86	1
11	Stand part complete	727 80 00	727 80 01	1

Pos. No.	Denomination	Part No. 727 57 20, galvanized steel, consisting of:	Part No. 727 57 50, stainless steel, consisting of:	Qty.
12	Stand complete	687 89 00	687 89 01	1
13	Mounting kit	84 93 22	84 93 22	1
14	Bracket	727 73 00	727 73 00	1
15	Hose DN25	728 14 00	728 14 00	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump NS	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 00	727 98 00	1	-
32**	Pipe bend	728 00 00	728 00 00	1	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	1	-
34**	Flange kit PVC-U	727 99 00	727 99 00	1	-
35**	Chain sling 3 m	728 15 00	728 15 01	1	-

** Option

JA 117 with pump NS 3171 MT

Pos. No.	Denomination	Part No. 727 61 20, galvanized steel, consisting of:	Part No. 727 61 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	1
3	Ejector housing	687 78 00	687 78 01	1
4	Flange kit DN150	84 93 19	84 93 19	1
5	Holder	727 81 00	727 81 01	1
6	Damper	687 72 11	687 72 11	3
7	Holder	727 92 00	727 92 00	1
8	Holder complete	727 86 00	727 86 00	1
9	Lifting eye unit	728 11 00	728 12 00	1
10	Chain sling unit	83 94 84	83 94 86	1
11	Stand part complete	727 80 00	727 80 01	1
12	Stand complete	688 71 00	688 71 01	1
13	Mounting kit	84 93 25	84 93 25	1
14	Bracket	727 73 00	727 73 00	1
15	Hose DN25	728 14 00	728 14 00	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 00	727 98 00	1	-
32**	Pipe bend	728 00 00	728 00 00	1	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	1	-

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
34**	Flange kit PVC-U	727 99 00	727 99 00	1	-
35**	Chain sling 3 m	728 15 00	728 15 01	1	-

** Option

JA 217 with pump NS 3202 MT

Pos. No.	Denomination	Part No. 727 65 20, galvanized steel, consisting of:	Part No. 727 65 50, stainless steel, consisting of:	Qty.	
2	Outlet pipe	687 87 00	687 87 00	2	
3	Ejector housing	687 78 00	687 78 01	2	
4	Flange kit DN200	84 93 20	84 93 20	1	
5	Holder	727 81 00	727 81 01	2	
6	Damper	687 70 12	687 72 12	4	
7	Holder	727 92 00	727 92 00	2	
8	Holder complete	727 86 00	727 86 00	1	
9	Lifting eye unit	728 11 00	728 18 00	1	
10	Chain sling unit	83 94 81	83 94 83	1	
11	Flange kit DN150	84 93 19	84 93 19	2	
12	Stand	688 74 00	688 74 01	1	
13	Mounting kit	84 93 23	84 93 23	1	
14	Bracket	727 73 00	727 73 00	2	
15	Hose DN32	728 14 01	728 14 01	2	
16	Connection pipe	688 26 00	688 26 01	1	
17	Stand part, complete, left	727 93 10	727 93 11	1	
18	Stand , complete, right	727 93 00	727 93 01	1	
19	Stand part, complete	727 95 00	727 95 01	1	

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 00	727 98 00	2	-
32**	Pipe bend	728 00 00	728 00 00	2	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	2	-
34**	Flange kit PVC-U	727 99 00	727 99 00	2	-
35**	Chain sling 3 m	728 16 00	728 16 01	1	-

** Option

JA 317 with pump NS 3202 LT

Pos. No.	Denomination	Part No. 727 69 20, galvanized steel, consisting of:	Part No. 727 69 50, stainless steel, consisting of:	Qty.
2	Outlet pipe	687 87 00	687 87 00	3
3	Ejector housing	687 78 00	687 78 01	3
4	Flange kit DN300	84 93 21	84 93 21	1
5	Holder	727 81 10	727 81 11	3
6	Damper	687 72 12	687 72 12	4
7	Holder	727 92 00	727 92 00	3
8	Holder complete	727 86 00	727 86 00	1
9	Lifting eye unit	728 19 00	728 19 00	1
10	Chain sling unit	83 94 80	83 94 82	1
11	Flange kit DN150	84 93 19	84 93 19	3
12	Stand	687 88 00	687 88 01	1
13	Mounting kit	84 93 23	84 93 23	1
14	Bracket	727 73 00	727 73 00	3
15	Hose DN32	728 14 01	728 14 01	2
16	Connection pipe	688 78 00	688 78 01	1
17	Stand part, complete, left	727 96 10	727 96 11	1
18	Stand part, complete, right	727 96 00	727 96 01	1
19	Stand part, complete	727 97 00	727 97 01	1

Pos. No.	Denomination	Part No. galvanized steel	Part No. stainless steel	Qty.	Remark
1	Pump	-	-	1	To be ordered separately
31**	Pipe unit PVC-U (4x1 m)	727 98 00	727 98 00	3	-
32**	Pipe bend	728 00 00	728 00 00	3	-
33**	Pipe extension kit (2x1 m)	727 98 10	727 98 10	3	-
34**	Flange kit PVC-U	727 99 00	727 99 00	3	-
35**	Chain sling 3 m	728 17 00	728 17 01	1	-

** Option

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