INSTALLATION, SERVICE AND MAINTENANCE INSTRUCTIONS

ESTAMPINOX EFI

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EC Declaration of Conformity

The manufacturer:  **INOXPA, S.A.**  
c/ Telers, 57  
17820 Banyoles (Girona), Spain

herewith declares that the machine:

**ESTAMPINOX EFI centrifugal pump**

with the serial number: ________________

conforms to the relevant provisions of the following directives:

- Low voltage Directive 2006/95/EC

Applicable harmonised Standards:

- UNE-EN ISO 12100:2012

Identification of the person empowered to draw up the Declaration on behalf of the manufacturer, and qualified to compile the technical file established by the Community:

Banyoles, 20 February 2014

David Reyero Brunet  
Technical Office Manager
1. Safety

1.1. INSTRUCTION MANUAL
This manual contains information regarding the reception, installation, operation, assembly, disassembly and maintenance of the ESTAMPINOX EFI pump.

The information published in the instruction manual is based on updated data.

INOXPA reserves the right to modify this instruction manual without prior notice.

1.2. INSTRUCTIONS FOR START-UP
This instruction manual contains essential and useful information for the correct handling and maintenance of your pump.

Carefully read the instructions prior to starting the pump, familiarise yourself with the installation, operation and correct use of the pump and strictly follow the instructions. These instructions should be kept in a safe location near the installation area.

1.3. SAFETY
1.3.1. Warning symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Safety hazard for people in general</td>
</tr>
<tr>
<td>⚠️</td>
<td>Electric hazard</td>
</tr>
<tr>
<td>⚠️</td>
<td>Danger! Suspended loads</td>
</tr>
<tr>
<td>⚠️</td>
<td>Mandatory to ensure safety at the workplace</td>
</tr>
<tr>
<td>⚠️</td>
<td>Danger of injury caused by rotating equipment parts</td>
</tr>
<tr>
<td>⚠️</td>
<td>Danger! Caustic or corrosive agents.</td>
</tr>
<tr>
<td>⚠️</td>
<td>Danger for the correct operation of the equipment</td>
</tr>
<tr>
<td>⚠️</td>
<td>Mandatory use of safety goggles</td>
</tr>
</tbody>
</table>

1.4. GENERAL SAFETY INSTRUCTIONS

Read the instruction manual carefully before installing and starting the pump. Contact INOXPA in case of doubt.

1.4.1. During the installation

The Technical Specifications of Chapter 8 should always be observed.

Never start the pump before connecting it to the lines.

Do not operate the pump if the pump cover is not fitted.

Check for proper specifications of the motor, especially if its working conditions create an explosion hazard.

During the installation, all the electric work should be carried out by authorised personnel.
1.4.2. During operation

The Technical Specifications of Chapter 8 should always be observed. Under no circumstances can the specified limit values be exceeded.

NEVER touch the pump or the pipework during operation if the pump is being used for transferring hot liquids or during cleaning.

The pump contains moving parts. Never place your fingers inside the pump during operation.

NEVER operate with the suction and discharge valves closed.

NEVER spray water directly on the electrical motor. The standard motor protection is IP-55: protection against dust and water spray.

1.4.3. During maintenance

The Technical Specifications of Chapter 8 shall always be observed.

NEVER disassemble the pump until the pipes have been emptied. Remember that liquid will remain inside the pump's casing (if does not have a purge). Bear in mind that the pumped liquid may be hazardous or extremely hot. Consult the regulations in effect in each country for these cases.

Do not leave loose parts on the floor.

ALWAYS disconnect the electrical power to the pump prior to carrying out any maintenance. Remove the fuses and disconnect the cables from the motor's terminals.

All electrical work must be carried out by authorised personnel.

1.4.4. Compliance with the instructions

Not following the instructions may impose a risk for the operators, the environment and the machine, and may result in the loss of the right to claim damages.

This non-compliance may result in the following risks:

- Failure of important machine/plant functions.
- Failure of specific maintenance and repair procedures.
- Possible electrical, mechanical and chemical hazards.
- Risk to the environment due to the type of substances released.

1.4.5. Warranty

Any warranty will be void immediately and lawfully; additionally, INOXPA will be compensated for any civil liability claims submitted by third parties, in the following cases:

- The service and maintenance work have not been carried out in accordance with the service instructions, the repairs have not been carried out by our personnel or have been carried out without our written authorisation;
- Modifications have been carried out on our material or equipment without written authorisation;
- The parts or lubricants used are not INOXPA genuine parts;
- The material or equipment has been improperly used, has been used negligently, or has not been used according to the instructions and their intended;
- The pump parts are damaged because they have been subjected to high pressure due to not having used a safety valve.

The General Conditions of Delivery already in your possession are also applicable.
The machine may not undergo any modification without prior approval from the manufacturer. For your safety, only use original spare parts and accessories. The usage of other parts will relieve the manufacturer of any liability.

Changing the service conditions can only be carried out with prior written authorisation from INOXPA.

Please do not hesitate to contact us in case of doubts or if further explanations are required regarding specific data (adjustments, assembly, disassembly, etc.).
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3. General Information

3.1. DESCRIPTION
ESTAMPINOX EFI centrifugal pumps have designed for to pump water and compatible liquids with AISI 316L stainless steel.
This single-stage horizontal pump has a circular body with axial suction and tangential discharge. The main pump components are: pump casing, impeller, cover, lantern and a shaft which is rigidly coupled to the motor shaft.

3.2. APPLICATION
EFI is designed to cater for the needs of auxiliary services in the food-processing, chemical, pharmaceutical and wine-making industries.
For each type of the pump, the hydraulic performance is given by the choice of impeller diameters and speeds. The characteristic curves also show the power requirements. The intended use of the pump is defined by its characteristic curve and operating limits provided in the Technical Specifications section.

⚠️ Misuse of the pump or its use beyond the operating limits may be dangerous or cause permanent damage to the equipment.
4. Installation

4.1. RECEPTION OF THE PUMP

INOXPA will not be liable for any deterioration of the material due to transport or unpacking. Visually check that the packaging has not been damaged.

The following documentation is included with the pump:

- Shipping documents.
- Instructions and Servicing manual for the pump.
- Instructions and Servicing manual for the motor (*).
- (*) If the pump has been supplied with a motor from INOXPA.

Unpack the pump and check the following:

- The suction and discharge connections on the pump, removing any remaining packaging material.
- Check that the pump and motor have not suffered any damage.
- If not in good material condition and/or if not all the parts are included, the shipping carrier should submit a report as soon as possible.

4.1.1. Identification of the pump

Each pump has a nameplate with the basic data required to identify the model.

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GIRONA (SPAIN) . www.inoxpa.com

Serial number

Pump plate
4.2. TRANSPORT AND STORAGE

The ESTAMPINOX EFI pumps are often too heavy to be stored manually.

Lift the pump as indicated below:

ATTENTION!
Always remove the motor shroud before hoisting.

4.3. LOCATION

Place the pump in a position that allows enough space around it to provide access to the pump as well as to the motor. (Refer to Section 8. Technical Specifications for dimensions and weights.

Place the pump on a flat and level surface.

Install the pump so that it can be properly ventilated.

If the pump is installed outdoors, it must be sheltered under a roof. Its location must allow for easy access during any inspection or maintenance tasks.

4.4. PIPES

- As a general rule, install the suction and discharge lines in straight sections, with the minimum possible number of elbows and fittings in order to reduce any pressure losses that may be caused by friction.
- Make sure that the pump’s ports are properly aligned with the pipework and have a diameter similar to that of the pump connections.
- Place the pump as close as possible to the suction tank and whenever possible below the liquid level, or even below the tank level in order to achieve the largest possible static head for suction.
- Install support brackets for the lines as close as possible to the pump's suction and discharge ports.

4.4.1. Shut-off valves

The pump may be isolated for maintenance. To accomplish this, shut-off valves must be installed and connected to the pump's suction and discharge connections.

These valves must ALWAYS be open during operation of the pump.
4.5. ELECTRICAL INSTALLATION

Only qualified personnel can connect the electric motors. Take the necessary measures to prevent damage to cables and connections.

Electrical equipment, terminals and components of the control systems may still carry current when they are disconnected. Contacting them may impose a hazard to operators or cause irreparable material damage.

Prior to handling the pump, make sure that the electrical panel is disconnected.

- Connect the motor in accordance with the instructions supplied by the motor manufacturer.
- Check the direction of rotation.

ATTENTION!
See indicator label on the pump.

Start and stop the pump motor momentarily. Make sure, looking at the pump from behind, that the motor fan rotates in a clockwise direction.

ALWAYS check the direction of rotation of the motor with liquid inside the pump.
5. Starting the pump

Prior to starting the pump, carefully read the instructions in Section 4. Installation.

5.1. START-UP

Carefully read Section 8. Technical Specifications. INOXPA will not be liable for improper use of the equipment.

NEVER touch the pump or the lines if hot liquids are being pumped.

5.1.1. Checks before starting the pump

- Completely open the shut-off valves on the suction and discharge lines.
- If liquid does not flow towards the pump, fill it with the liquid to be pumped.

The pump must never turn dry.

- Check that the direction of rotation of the motor is correct.

5.1.2. Checks when starting the pump

- Check that the pump is not making any strange noises.
- Check if the absolute inlet pressure is sufficient to prevent cavitation in the pump.
- Control the discharge pressure.
- Check for leaks in the sealing areas.

A shut-off valve shall not be used to regulate the flow in the suction line. All shut-off valves must be fully open during operation.

Control the motor consumption to prevent an electrical overload.

Reduce the flow rate and the electrical power consumed by the motor:

- by regulating the pump's discharge flow.
- by decreasing the motor speed.

Use special protection when the sound pressure in the operation area exceeds 80 dB (A).
# 6. Operating problems

The attached table lists solutions to problems that may arise while operating the pump. It is assumed that the pump has been properly installed and that is has been selected correctly for the specific application.

Contact INOXPA if technical assistance is required.

<table>
<thead>
<tr>
<th>PROBABLE CAUSES</th>
<th>SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrong direction of rotation.</td>
<td>Reverse the direction of rotation.</td>
</tr>
<tr>
<td>Insufficient NPSH</td>
<td>Raise the suction tank. Lower the pump.</td>
</tr>
<tr>
<td></td>
<td>Reduce the vapour pressure.</td>
</tr>
<tr>
<td></td>
<td>Widen the diameter of the suction pipe.</td>
</tr>
<tr>
<td></td>
<td>Shorten and simplify the suction line.</td>
</tr>
<tr>
<td>Pump not purged</td>
<td>Purge or fill.</td>
</tr>
<tr>
<td>Cavitation.</td>
<td>Increase the suction pressure.</td>
</tr>
<tr>
<td>The pump sucks in air.</td>
<td>Check the suction line and all of its connections.</td>
</tr>
<tr>
<td>Suction pipe obstructed</td>
<td>Check the suction line and the filters, if available.</td>
</tr>
<tr>
<td>Discharge pressure too high</td>
<td>If necessary, reduce the pressure losses, for example, by increasing the pipe diameter.</td>
</tr>
<tr>
<td>Flow rate too high</td>
<td>Reduce the flow by means of a diaphragm.</td>
</tr>
<tr>
<td></td>
<td>Partially close the discharge valve.</td>
</tr>
<tr>
<td></td>
<td>Trim the impeller.</td>
</tr>
<tr>
<td></td>
<td>Decrease speed.</td>
</tr>
<tr>
<td>Viscosity of the liquid too high</td>
<td>Reduce the viscosity, for example, by heating the liquid.</td>
</tr>
<tr>
<td>Liquid temperature is too high</td>
<td>Decrease the temperature by cooling the liquid.</td>
</tr>
<tr>
<td>Mechanical seal worn or damaged</td>
<td>Replace the seal.</td>
</tr>
<tr>
<td>Inadequate O-rings for the liquid.</td>
<td>Install the correct O-rings after consulting the supplier.</td>
</tr>
<tr>
<td>The impeller scrapes</td>
<td>Lower the temperature.</td>
</tr>
<tr>
<td></td>
<td>Reduce the suction pressure.</td>
</tr>
<tr>
<td></td>
<td>Adjust the impeller/cover play.</td>
</tr>
<tr>
<td>Tension in the lines.</td>
<td>Connect the pipes to the pump without tension.</td>
</tr>
<tr>
<td>Foreign matter in the liquid.</td>
<td>Install a filter in the suction pipe.</td>
</tr>
<tr>
<td>Mechanical seal spring tension is too low.</td>
<td>Adjust as indicated in this manual.</td>
</tr>
</tbody>
</table>
7. Maintenance

7.1. GENERAL CONSIDERATIONS
This pump, just like any other machine, requires maintenance. The instructions contained in this manual cover the identification and replacement of spare parts. The instructions are aimed at maintenance personnel and those responsible for the supply of spare parts.

Carefully read Chapter 8. Technical Specifications.

All replaced material should be duly disposed of/recycled according to the directives in force in each area.

ALWAYS disconnect the pump before beginning any maintenance work.

7.1.1. Check the mechanical seal
Periodically check that there are no leaks around the shaft. If leakage is detected through the mechanical seal, replace it following the instructions in the section Assembly and Disassembly.

7.2. STORAGE
Before storing the pump it should be completely drained. Prevent as far as possible exposing the parts to excessively humid environments.

7.3. CLEANING

The use of aggressive cleaning products such as caustic soda and nitric acid may burn the skin.

Use rubber gloves during the cleaning process.

Always use protective goggles.
7.4. ASSEMBLY / DISASSEMBLY OF THE PUMP

7.4.1. Pump and single mechanical seal

Disassembly

1. Remove the screws, nuts and washers (51) (53A) (54) and disassemble the pump casing (01).
2. Check the condition of the O-ring (80) on the pump casing and replace if damaged.

3. Place an open-end wrench on the flat sides of the shaft (05) to prevent it from rotating. For EFI-3 place a pin into the shaft hole (05).
4. Pull out the impeller (02) disassembling the screw (52A) and washer (53). For the EFI-3, quit the blind nut (45) and washer (35).
5. Remove the rotating part of the seal (08) sliding in front of the shaft (05).
6. Remove the pump cover (03) from the lantern (04).
7. Manually remove the stationary part of the seal (08) which is located in the pump cover (03).

8. Remove the splash ring (82).
9. Loosen the studs (55) from the shaft (05) and take it off from the motor (93).
Assembly

1. Place the shaft (05) on the motor (93).
2. Fix the shaft (05) with the studs (55) to the motor (93) leaving it to gauge the impeller (02) with the pump cover (03).

3. Hold the pump cover (03) on the lantern (04) with the hand and gauge the assembly position according the distance A.

<table>
<thead>
<tr>
<th>Pump model</th>
<th>A (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFI - 0 / 1</td>
<td>33</td>
</tr>
<tr>
<td>EFI - 2 / 3</td>
<td>35</td>
</tr>
</tbody>
</table>

4. Now, tighten the studs (55) strongly that fix the shaft (05) to the motor (93) from the bottom lantern window (04).

5. Take off the pump cover (03).
6. Place the splash ring (82) in the shaft (05).
7. Fit the stationary part of the mechanical seal (08) on the pump cover (03).
8. Put the pump cover (03) on the lantern (04).
9. Fit the rotating part of the mechanical seal (08) in the shaft (05) and place the impeller (02).
10. Fix the impeller (02) with the screw (52A) and washer (53). For the EFI-3, fix it with the washer (35) and blind nut (54B).

ATTENTION! When installing the new seal, use soapy water when fitting the different parts and gaskets to allow them to slide better; apply to the stationary as well as the rotating parts.

1. Mount the o-ring (80) on the pump cover (03) taking care that it is not twisted.
2. Put the pump casing (01) and secure it on the lantern (04) by the screws, nuts and washers (51) (53A) (54).
8. Technical Specifications

8.1. TECHNICAL SPECIFICATIONS

Maximum operating pressure: 600 kPa (6 bar)
Temperature range: -10 to 90 °C (EPDM)
Maximum speed: 3000 rpm (50 Hz), 3600 rpm (60 Hz)

Materials
- Parts in contact with the product: AISI 316L (1.4404)
- Other steel parts: AISI 304 L (1.4306)
- Gaskets in contact with the product: EPDM (standard)
- Other gaskets: Consult with the supplier
- Surface finish: Electropolished

Mechanical seal
- Type: Single internal seal
- Material of rotating part: Ceramic (Cer) (standard)
- Material stationary part: Graphite (C) (standard)
- Gasket material: EPDM (standard)

Motor
- Type: Three-phase asynchronous motor, flange B34 (B35 for motor frame 132), 2 or 4 poles, IP55 protection, Class-F insulation
- Power: 0.37 to 7.5 kW
- Voltage and frequency: 220-240 V ∆ / 380-420 V Y, ≤ 4 kW, 380-420 V ∆ / 660-690 V Y, ≥ 5.5 kW

8.2. TIGHTENING TORQUES

If not stated otherwise, the torques listed in the following table should be applied on the nuts and bolts of this pump.

<table>
<thead>
<tr>
<th>Size</th>
<th>Nm</th>
<th>lb·ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>M8</td>
<td>21</td>
<td>16</td>
</tr>
<tr>
<td>M10</td>
<td>42</td>
<td>31</td>
</tr>
<tr>
<td>M12</td>
<td>74</td>
<td>55</td>
</tr>
<tr>
<td>M16</td>
<td>112</td>
<td>83</td>
</tr>
</tbody>
</table>
### 8.3. CROSS SECTION ESTAMPINOX EFI- 0 / 1 / 2

![Diagram]

### 8.4. ESTAMPINOX EFI- 0 / 1 / 2 PARTS LIST

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
<th>EFI - 0</th>
<th>EFI - 1</th>
<th>EFI - 2</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Pump casing</td>
<td>1</td>
<td></td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>02</td>
<td>Impeller</td>
<td>1</td>
<td></td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>03</td>
<td>Pump cover</td>
<td>1</td>
<td></td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>04</td>
<td>Lantern</td>
<td>1</td>
<td></td>
<td></td>
<td>AISI 304</td>
</tr>
<tr>
<td>05</td>
<td>Shaft</td>
<td>1</td>
<td></td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>08</td>
<td>Mechanical seal</td>
<td>1</td>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>51</td>
<td>Allen screw</td>
<td>4</td>
<td></td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>51A</td>
<td>Allen screw</td>
<td>4</td>
<td></td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>52A</td>
<td>Hexagonal screw</td>
<td>1</td>
<td></td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>53</td>
<td>Flat washer</td>
<td>1</td>
<td></td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>53A</td>
<td>Grower washer</td>
<td>8</td>
<td>4</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>53B</td>
<td>Grower washer</td>
<td>-</td>
<td>4</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>54</td>
<td>Hexagonal nut</td>
<td>4</td>
<td></td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>55</td>
<td>Stud</td>
<td>1</td>
<td>2</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>80</td>
<td>O-ring</td>
<td>1</td>
<td></td>
<td></td>
<td>EPDM</td>
</tr>
<tr>
<td>82</td>
<td>Splash ring</td>
<td>1</td>
<td></td>
<td></td>
<td>EPDM</td>
</tr>
<tr>
<td>93</td>
<td>Motor</td>
<td>1</td>
<td></td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>
8.5. CROSS SECTION ESTAMPINOX EFI- 3

8.6. ESTAMPINOX EFI- 3 PARTS LIST

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
<th>EFI-3 (motor 100/112)</th>
<th>EFI-3 (motor 132)</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Pump casing</td>
<td>1</td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>02</td>
<td>Impeller</td>
<td>1</td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>03</td>
<td>Pump cover</td>
<td>1</td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>04</td>
<td>Lantern</td>
<td>1</td>
<td></td>
<td>AISI 304</td>
</tr>
<tr>
<td>05</td>
<td>Shaft</td>
<td>1</td>
<td></td>
<td>AISI 316L</td>
</tr>
<tr>
<td>08</td>
<td>Mechanical seal</td>
<td>1</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>23</td>
<td>Counterflange</td>
<td>-</td>
<td>1</td>
<td>LM4</td>
</tr>
<tr>
<td>35</td>
<td>Impeller washer</td>
<td>1</td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>51</td>
<td>Allen screw</td>
<td>8</td>
<td>1</td>
<td>A2</td>
</tr>
<tr>
<td>51A</td>
<td>Allen screw</td>
<td>4</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>52</td>
<td>Hexagonal screw</td>
<td>-</td>
<td>4</td>
<td>A4</td>
</tr>
<tr>
<td>53A</td>
<td>Grower washer</td>
<td>12</td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td>53C</td>
<td>Flat washer</td>
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8.7. CROSS SECTION AND ESTAMPINOX EFI PARTS LIST WITH SHROUD

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