

Бустеры и охлаждающие кожухи для скважинных электронасосов

Техническое описание

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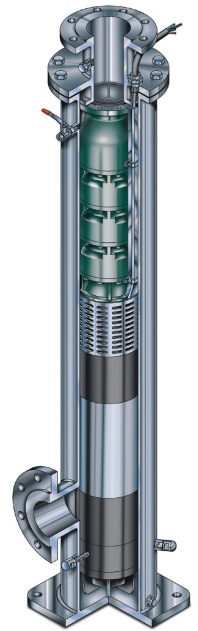
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BOOSTER



1 GENERAL INFORMATION

This booklet is part of the operation and maintenance manual of the submersed electric pumps. Boosters are specifically made for each type of submersed electric pump in order to adapt them to the required operating conditions.

The data plate of the booster is affixed by applying the second data plate supplied with the pump and motor, to the relative holder.

No part of these documents may be duplicated in any form unless prior authorization has been obtained from the manufacturer.

2 ASSEMBLY AND INSTALLATION:

Dispose of the packing material as established by the local laws in force. Do not litter.

The booster must always be in a vertical position when the electric pump is installed in it. Comply with the following instructions in sequence:

- 1) fix the booster pipe in a vertical position, checking that it is firmly in place. Take care to prevent damage to the bearing points;
- 2) Remove the cover from the booster. Place the seal on the pump flange and move the counterflange on the internal part of the cover near to it, fully tightening the relative bolts and screws.
- 3) Make sure that the transport and handling operations have not damaged the cables. Insert the cables into the core hitches and tighten, but not to an excessive extent. Always route the supplied cables out through the booster or, if essential, make a junction inside. Make sure that everything is perfectly made and tight.
- 4) Set the booster cover seal in place.
- 5) Unscrew the bearing pins from the central casing of the booster and lower the electric pump inside it with the cover already mounted.
- 6) Keeping everything in a vertical position, fix the booster cover complete with electric pump to the central part of the booster using the relative bolts.
- 7) Tighten the bearing pins in sequence and without pulling too much until a firm contact has been made with the submersed motor, then tighten the check nuts of the O-Ring seals.
- 8) Connect the booster to the system in question with care in order to prevent impact or jolting which could damage the pin contact points of the motor.

ATTENTION The pipes must be supported near the booster unit since this latter must never act as a bearing point. Furthermore, the weight of the booster must not bear on the pump flanges, but just on the relative supporting points.

Starting

Before it is started, the booster must be completely filled with the pumped fluid. All the air must be bled from inside through the vent valve installed on it.

Make sure that no fluid leaks out. If leaks are discovered, eliminate them by tightening the bolts, nuts, core hitches and so forth, to a further extent. Before connecting the power and protection wires to the control panel, make sure that no water leaks from inside the sheath or stranded wires when the booster is subjected to a pressure higher than that of the atmosphere. If leaks are discovered, remove the unit from the booster by carrying out the above instructions in reverse order, then check carefully to identify any abrasions on the cable sheaths or imperfectly tight connections.

Start the unit and make sure that it operates in the correct way in compliance with the instructions in the operation and maintenance manual of the submersed electric pumps.

Make sure that the pins have been correctly tightened if vibrations and/or abnormal noise are noted.

To obtain the correct performance from the machine, all phases of the operating cycle must guarantee a higher pressure in the booster than that of the atmosphere.

In the event of sharp or accidental stops, the system must guarantee that special valves installed as a protection against water hammers are able to safeguard the container from overpressures.



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