

ABSTRACT

This procedure outlines the requirements for changing a TP Impeller. All decontamination and safety procedures outlined in the IOM must be employed.

The procedure is very straightforward if instructions are followed step by step.

PROCEDURE

- Position and support pump upside down with the suction connection facing up.
- Mark the location of the suction cover to the volute to ease reassembly.
- Remove socket head capscrews (914.01)* that retain suction cover.
- Remove suction cover, taking care to protect the O-Ring.
- Remove the impeller nut (922)*, the tooth washer (930.01)*, and the flat washer (552)*.
- Carefully pull impeller off of the shaft. **Important: The impeller holds lower mechanical seal in place. Take care not to disturb mechanical seal.**
- Verify impeller key is still properly positioned on shaft.
- Install new impeller onto shaft, making sure impeller is installed onto the shaft all the way.
- Reinstall flat washer (552)*, tooth washer (930.01)*, and retighten impeller nut (922)*. *Note: (Use blue # 242 locking compound on impeller nut).*
- Reinstall suction cover, taking care to lubricate the O-ring before installation.
- Replace retaining bolts. Torque to 12 ft. lbs.
- Unit should now be ready for test operation. Return unit to normal orientation, connect power, and start pump.

* Indicates part number of item on cross section drawing on parts list.

Notes: If oil is found leaking from the impeller/volute/seal area, the mechanical seal was not compressed properly during the impeller installation. Disassemble unit, and reinstall impeller properly, taking care to keep mechanical seal compressed until impeller bolt is secured.