



**Warning:** Trying to access array offset on value of type null in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **180**

**Warning:** Undefined array key 1 in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **182**

**Warning:** Trying to access array offset on value of type null in `/var/www/vhosts/amatrol.com/httpdocs/wp-content/themes/kallyas-child/dkpdf/dkpdf-index.php` on line **182**

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The screenshot displays a PDF document with the following content:

- Table of Contents:** Segment 1: PUMP INSTALLATION, Segment 2: PUMP OPERATION, Segment 3: PUMP SELECTION, Segment 4: PUMP MAINTENANCE AND TROUBLESHOOTING.
- Check Motor Current Readings:** Maintain a record of motor current readings and regularly check at pre-determined intervals. An increase in amperage means an increased load on the motor. When the amperage draw reaches a specific level (to be determined by maintenance), the pump should be thoroughly inspected and worn components replaced.
- Check the Seals and Fittings for Leaks:** Whenever routine inspection/maintenance is performed on the system, check all seals for wear or scratches that may cause leaks. While the pump is operating, routinely check all fittings for leaks.
- Figure 60: Inspection Locations:** A diagram showing a vertical turbine pump assembly with labels for MOTOR, SHAFT SEALS AND FITTINGS, IMPELLER, and BEARINGS.
- Check the Suction Strainer for Debris:** If the fluid being pumped has debris or large particles in it, routinely check the strainer at the end of the intake for debris. This requires that the pump be pulled from the well or sump.
- Check the Fluid Level for Adequate Submergence:** Check the surface level of the fluid against the depth of the bottom of the pump. Each pump has a minimum submergence level that maximizes efficiency and minimizes vortexing of the fluid. Check manufacturer's literature for the required submergence for the pump.
- Check the Pump for Noise or Vibration:** When the pump is operating, listen for any unusual noise or vibration. Experienced operators will know when a pump sounds or feels different. Often, the cause is a misaligned impeller, a bad bearing, or a misaligned shaft. Unusual noise or vibration is reason to immediately stop the pump and determine the cause of the problem.
- Check the Impellers for Wear:** The impellers should be checked for wear and misalignment whenever the pump is pulled out of the system. Verify that the impeller is not rubbing or in contact with the face of the bowl, in which case it would need adjustment. Pumping fluid with abrasives can cause impellers to wear quickly and cause them to need adjustment. The impeller adjustment nut is located on the top of the pump, under the motor. See the manufacturer's literature on the proper impeller adjustment. Also, check to make sure that if the impellers are adjusted, that it does not change the shaft seal setting, or if it does, then make sure the shaft seals are reset before the pump is reinstalled.
- Figure 61: Damage Caused by Cavitation:** A photograph showing a severely damaged and pitted impeller.
- Check the Bearings for Wear:** The pump bearings should be inspected for wear anytime the pump is pulled out of the system. Some bearings are packed in heavy-duty grease and sealed so that they do not require maintenance, however some bearings should be repacked whenever repairs are made. Before pulling the pump, check the manufacturer's literature to see what bearings require routine maintenance or inspection.

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**Warning:** foreach() argument must be of type array|object, null given in  
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