



Technical Bulletin TB0040

SUBJECT: Proper T80 Series Flushing Procedures in the Event of a Diaphragm Failure

In the event of a diaphragm failure on a T80 Series Hydra-Cell pump, the power end of the pump needs to be flushed with a solvent prior to being filled with oil to ensure proper lubrication of the pump.

When a diaphragm failure occurs, the process fluid (often salt water) can get into the power end of the pump. Prolonged operation of the pump with salt water in the power end will cause a loss of lubrication and will result in premature failure. The most common failure is a plunger seizing in a cylinder.

To flush the power end of a pump, follow these simple procedures:

1. Follow diaphragm replacement procedures outlined in the Installation & Service Manual
2. Disconnect the pump from the fluid supply before performing the next series of steps to ensure no outlet pressure is developed and no fluid is pumped.
3. Fully drain the water/oil mixture from the pump by removing both drain plugs.
4. Reinsert the drain plugs and fill the pump with 18 US quarts (17 liters) of solvent (diesel fuel may be used if a solvent is unavailable).
5. Rotate the shaft of the pump for several minutes at 50 rpm.
6. Drain the solvent by removing both drain plugs.
7. Reinsert the drain plugs and fill the pump with 18 US quarts (17 liters) of standard-duty motor oil of the appropriate viscosity.

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