



What is the start up procedure for a variable volume piston pump?

1. Check the rotation of the prime mover (electric motor or engine) matching it with the pump rotation.
2. Check the drive shaft alignment (equally aligned) to avoid any end thrust which can and will prematurely cause pump failure.
3. Check oil level and change filter elements.
4. Fill the case of the pump with hydraulic fluid, failure to fill the case of the pump with oil could cause pump failure on start up.
5. The case drain must be returned to the hydraulic reservoir by separate line and be full sized.
6. Check inlet and outlet ports to assure all connections are properly installed and check all mounting bolts and flanges to assure all are tight and properly aligned.
7. If inlet has a shut off valve make sure it is open before starting prime mover.
8. Make sure pressure compensator is at a low setting 300-500 psi.
9. Intermittently operate (jog) the pump, checking for correct rotation and until it primes. It may be necessary to loosen the outlet fitting temporarily to purge trapped air until a steady output flow is observed.
10. Once pump has started you can now set the flow and pressure adjustments for the system.