

**PRIMING PROCEDURE FOR**  
**HYDRATUBE DESIGN**

- Step 1        Place stroke adjustment to 100% stroke setting.
- Step 2        Shut down pump and remove coupling guard.
- Step 3        Manually retract piston to the rearward position.
- Step 4        Remove fill plug in reagent head assembly.
- Step 5        Remove manual bleed/auto bleed valve assembly from pump head.
- Step 6        Place a plastic pipette (i.e. turkey baster, etc.) into threaded hole of pump head where manual bleed/auto bleed valve assembly was removed. (In larger pump heads, remove the auto bleed valve adapter and add oil directly into the pump head. In this case, proceed to Step 8).
- Step 7        Fill pipette with same oil as being used in the gearbox.
- Step 8        Turn on pump and run until all air has been burped from pump head (add oil to pipette as required).
- Step 9        Shut off pump and manually retract piston to full rearward position.
- Step 10       Remove pipette and replace the manual bleed/auto bleed valve assembly in the pump head.
- Step 11       Manually turn motor shaft assembly until piston has gone to full forward position.
- Step 12       If piston sets up, prior to full forward position loosen bypass valve until oil is being pushed through allowing the piston to move forward. (Keep track of number of turns).
- Step 13       Manually turn motor shaft until piston is all the way forward. Retighten the bypass valve the number of turns counted earlier.
- Step 14       Retract the piston to the rearward position.
- Step 15       Fill the intermediate chamber with prescribed fluid and replace the fill plug.
- Step 16       Replace the coupling cover and the pump is ready for operation.
- Step 17       Prime the wet end of the reagent head with product and turn the pump on.