CHANGING ROTATION

Example of changing rotation: from PLP20 pump clockwise to counterclockwise

To change rotation of Polaris unidirectional pumps and motors it is necessary to operate in the following way:

DCA7_033_040

DCA7_033_029

DCA7_033_01

- 1. Clean the pump externally with care.
- 2. Loosen, and remove, the clamp bolts (1).
- 3. Coat the sharp edges of the drive shaft (4) with adhesive tape and smear a layer of clean grease on the shaft end extension to avoid damaging the lip of the shaft seal when removing the mounting flange.
- 4. Remove the mounting flange (2), taking care to keep the flange as straight as possible during removal. If the flange is stuck, tap around the edge with a fibre or rubber mallet in order to break away from the body. Ensure that while removing the front mounting flange, the drive shaft and other components remain in position.
- 5. Ease the drive gear (4) up to facilitate removal the front plate (3), taking care that the precision ground surfaces do not become damaged, and remove the drive gear.
- 6. Remove the driven gear (5) without overturning. The rear plate has not to be removed.
- 7. Re-locate the driven gear (5) in the position previously occupied by the drive gear (4)
- 8. Re-locate the drive gear (4) in the position previously occupied by the driven gear (5).
- 9. Replace the front plate (3) in its original position.
- 10. Gently wipe the machined surface of the mounting flange (2) and the body with a flat hand stone.
- 11. Refit the front mounting flange (2) turned 180° from its original position.
- 01/10.03 12. Refit the clamp bolts (1) with the washers and tighten in a crisscross pattern with the following torque value:

70 ⁺⁵ Nm (620 ÷ 664 lbf in) with cast iron cover.

45 $^{+5}$ Nm (398 ÷ 443 lbf in) with one or both cover in aluminium.

- 13. Check that the pump rotates freely when the drive shaft (4) is turned by hand. If not a pressure plate seal may be pinched.
- 14. The pump is ready for installation with the original rotation reversed.









