

Bleeding operation of pump 658 for rudder and/or drift

- **Dry boat :**

Rudder/Drift in down position -> cylinder with extended rod

- Unscrew the hose connections on the cylinder side.
- Place both hose ends in a tank filled with glycol water.
- Pump with the lever in D position (Down), then do the same with the lever in M position (Up).
- Keep the 2 hose ends immersed in the glycol water (no more air should escape from the hoses with the lever in neutral position).
- On outlet B, tighten the hose connection corresponding to the cylinder nose (N).
- Set lever to M position.
- Pump to bring cylinder to stop -> handle operation becomes harder.
- Set lever to D position, pump. No more air should escape from the remaining hose.
- Set lever to neutral position.
- On outlet A, tighten the hose connection corresponding to the bottom (F) of the cylinder.
- Set lever to D position.
- Pump to move cylinder to stop, rod out -> handle operation becomes harder.
- Make 2 complete round trips, taking care to change lever position.
- Purge complete.

- **Boat in the water :**

Rudder/Drift in down position -> cylinder with extended rod

- Set lever to neutral position.
- Loosen the hose connector corresponding to pump outlet A, and place it in a bowl of water, submerged. Air must not get in.
- Put your finger or a plug on the pump outlet A connection to prevent air from entering.
- Hold for the duration of the manoeuvre.
- Set lever to M position (Up).
- Pump to bring the cylinder to the stop -> handle operation becomes harder.
- Return lever to neutral position.
- Remove finger or plug from pump outlet A and reconnect hose connection.
- Set lever to D position (Down).
- Pump to bring the cylinder to the stop, keel down -> handle operation becomes harder.
- Make 2 complete up-down maneuvers, taking care to change lever position.
- Purge complete.