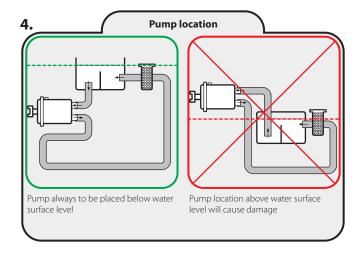
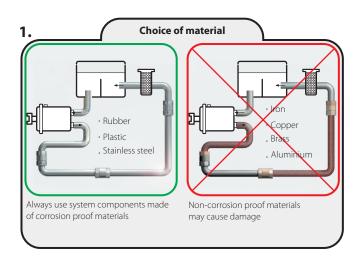


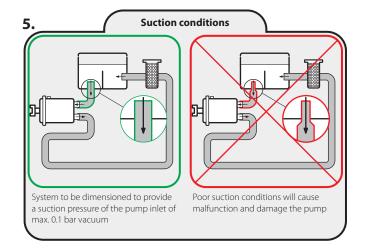


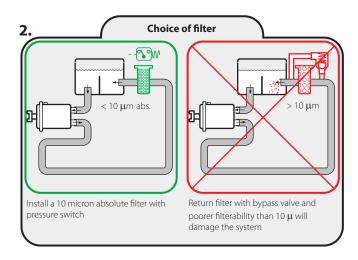
Right and wrong
Trouble shooting guide for water hydraulic systems

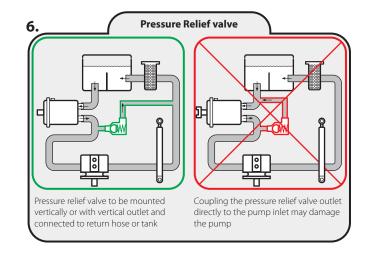
Design

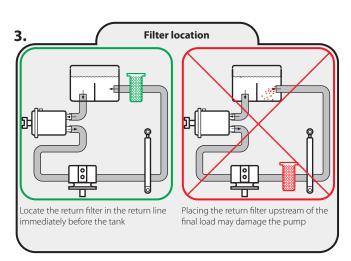


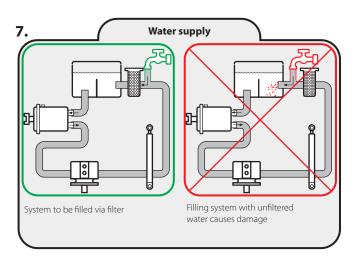




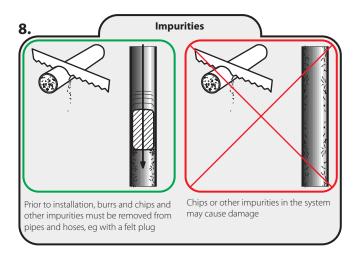


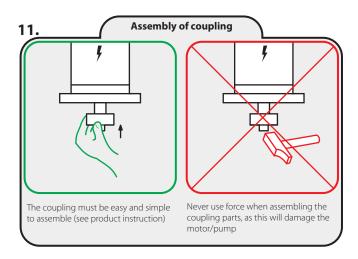


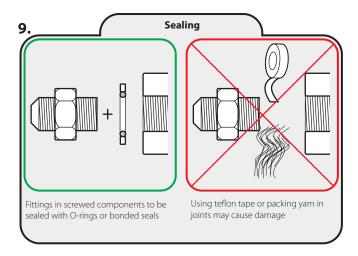


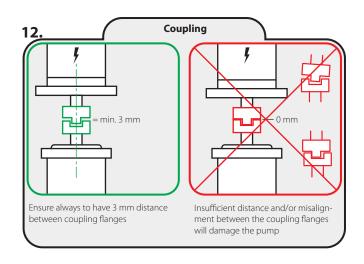


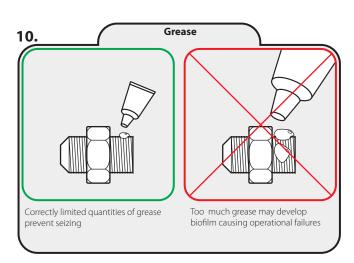
Installation

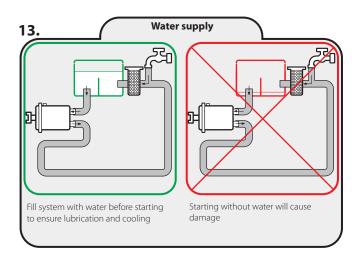




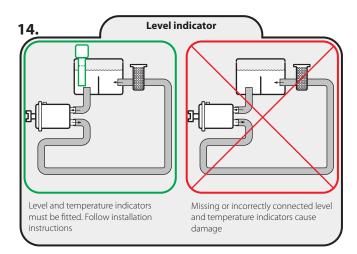


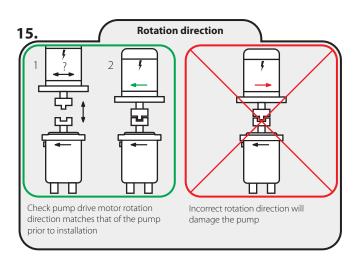


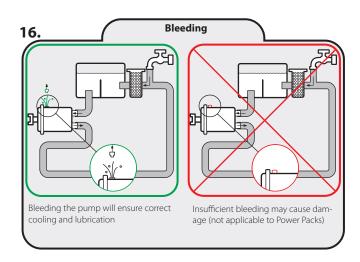




Wiring







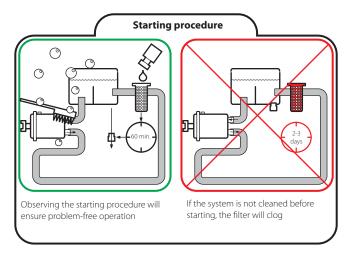
Starting procedure

Cleaning procedure

- Fill cold water into the system via the return filter and bleed the pump (Power Packs PPH 4 - 6.3 - 10 and 12.5 are self-bleeding)
- 2. Start and bleed the system -without pressure by opening the bypass valve
- 3. Add the cleaning agent to give 3% agent/water solution
- 4. Run the system for 60 min. and activate all components as often as possible to ensure effective flushing with the cleaning agent
- 5. Empty the system of the cleaning agent solution

Flushing procedure

- 6. Fill cold water through the return filter and bleed the pump (Power Packs PPH 4 6.3 10 and 12.5 are self-bleeding)
- 7. Run the system for 30 min. and activate all components as often as possible
- 8. Empty the system of the water
- 9. Alternatively the system may be flushed by running the unit without the return hose while continuously filling up water. The flushing should continue until there is no trace of cleaning agent in the return water
- 10. Change the return filter element, fill cold water through the return filter and bleed the pump during start up
- 11. The system is now ready for operation



Trouble shooting Open ended water systems No water supply • Is the water supply ok? • Is water supplied to the pump? Lower inlet Is the electric motor of Is the water in the tank Is water coming temperature or very hot? le above 50° the pump unit rotating? out of the tap? provide better cooling Are all taps open? Is the control light • Is the power supply ok? for "low pump suction • Are control lights on? pressure" on? • The filter is clogging No • Is the filter clogged? • Is the filter control • Is water coming light on? through the filter? • A blown fuse / or short circuit? • Check power supply and fuses and contact • Replace filter element electrician Replace filter element Contact serviceman • Turn on the tap for water supply

Trouble shooting Closed water systems The system does not work Is there sufficient water No in the tank? Is the electric motor of Is the water in the tank the pump unit rotating? very hot? le above 50° At temperatures higher than 50° the pump drive cuts out. • Is the power supply ok? Consequently the No • Are control lights on? cooler must be checked/cleaned • A blown fuse/or short circuit? • Is the filter clogged? Check power supply Fill water into the system • Replace filter element and fuses and contact • Is the filter control electrician light on? Contact serviceman • Trace leakage, if any Stamp

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