

COMMISSIONING

READ THIS TOGETHER WITH INSTRUCTIONS SUPPLIED FOR OTHER COMPONENTS FITTED.

1. During system assembly thoroughly descale, clean and flush all pipework, fittings and the reservoir.
Fill the system with new, filtered fluid that meets required specifications regarding viscosity at envisaged operating temperature, type and cleanliness for all components fitted within the system. Motor requirements are given in each technical data section. The motor case must be filled through the motor case drain port on rotating shaft motors or, through one of the case vent ports located in the crankcase on rotating case motors. Ensure the case drain line is filled and all connections tightened.
3. Check the rotation- flow information given on the installation drawing.
4. Start the drive pump slowly
 - for engines turn over on the starter motor for a few seconds at a time.
 - for electric motor, by a series of rapid on /off cycles. This is to ensure the pump internal components are filled with oil.
 Run the system at high flow and low pressure, actuate all systems in all modes until all entrained air in the system has been released. This air could cause some pulsation but, the motor should run smoothly after approximately ten minutes operation.
5. After the motor rotation has been proved under no- load conditions, it may be operated up to maximum pressure.
6. Check and top up fluid level if necessary.
7. The motor case pressure should be checked in all operating modes to ensure that the maximum allowable value for the specific motor model is not exceeded.
8. Check and adjust all settings where necessary in compliance with all supplier's instructions to system requirements.
9. Check steady state operating temperature is in accordance with system and component requirements.
10. Check for and repair any leaks.
11. After the first few hours running, clean or renew (as appropriate) all filters.
12. The following points should be incorporated in the machine maintenance instructions:

After one hundred hours operation ;

 - A. Check the security of all mounting bolts and socket head screws used in the assembly of the motor.
 - B. Check the security of the drive coupling and pipe connections.
 - C. Clean or replace filter elements as recommended by the manufacturer.