

Jacking oil pump (JOP)

Function

- To supply high-pressure oil to the bottom of each journal bearing of steam turbine and generator for jacking-up the rotors, so that the turning operation will be carried out with low-friction and secure.

Note

- JOP shall be operated during the rotor turning operation.
- The suction on JOP is usually taken from the lube oil line after lube oil filter.
- When the pressure of lube oil line decreases, the suction of JOP will be changed to main oil tank via check valve for protection of JOP.
- The suction valves of JOP shall be always opened in operation of steam turbine.
- The relief valve is installed on the jacking oil line which limits the pressure level of jacking oil.
- The check valves are installed at each bearing inlet, so as not to be released the jacking oil pressure.

Fig. 23

Sectional drawing of Jacking Oil Pump (JOP)

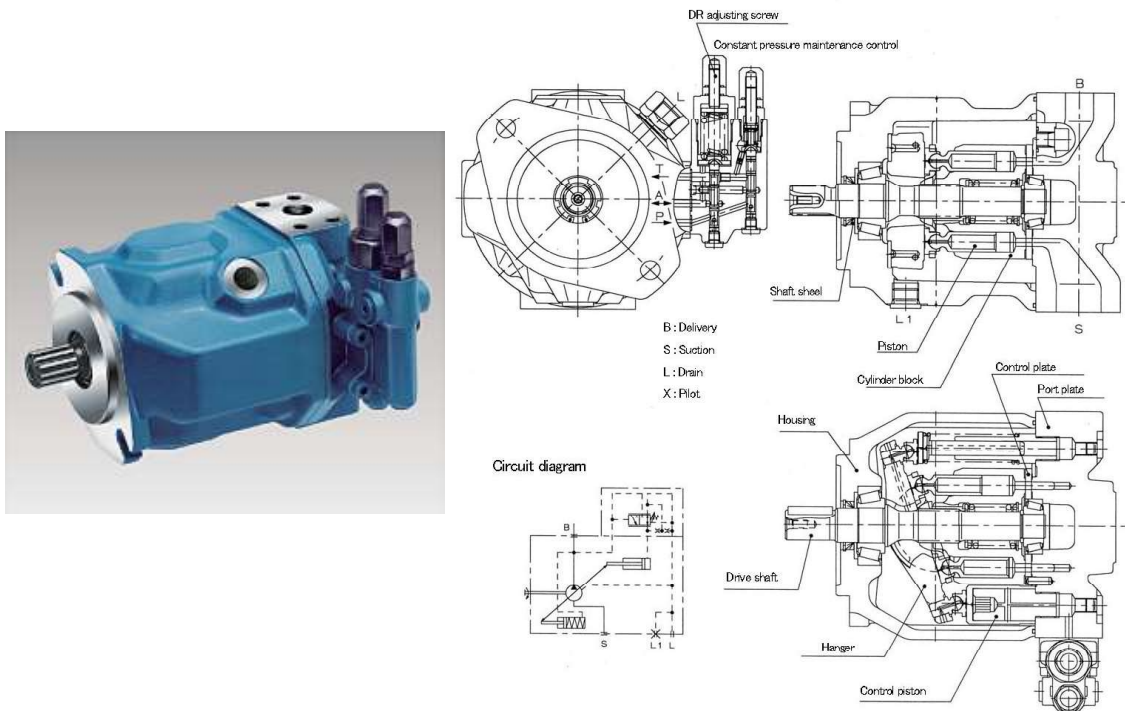


Fig. 24

Out line drawing of Jacking Oil Pump (JOP) unit

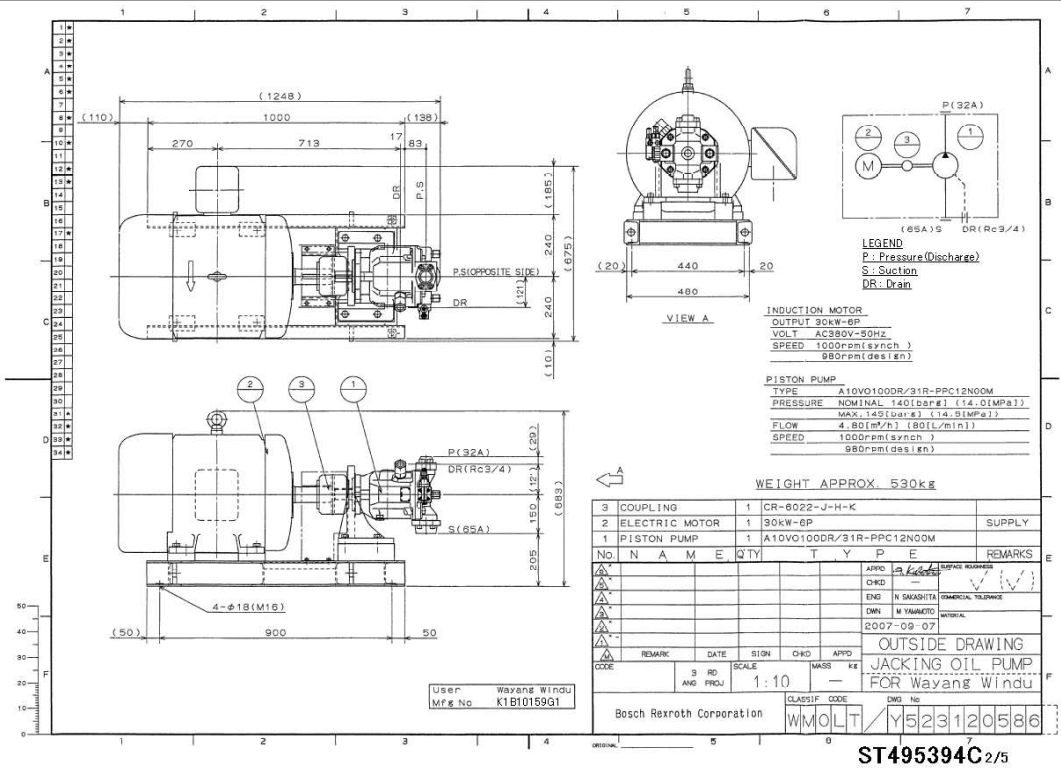


Fig. 25

Oil purifier

Function

- To separate the water and contaminants from lube oil.

Note

- Coalescer type oil purifier.
- Operating intervals should be decided by users' experience and oil condition.
 However, 2 or 3 days operation per week is recommended.
- Water and contaminant are gathered under the bottom of main oil tank, and are led to the oil purifier.
- The purified oil is returned to the main oil tank.

Fig. 26