Hydraulic Pumps for Forklift

Forklift Hydraulic Pumps - Hydraulic pumps could be either hydrostatic or hydrodynamic. They are normally used within hydraulic drive systems.

Hydrodynamic pumps could be regarded as fixed displacement pumps. This means the flow all through the pump per each pump rotation could not be changed. Hydrodynamic pumps can also be variable displacement pumps. These models have a more complex assembly that means the displacement can be changed. Conversely, hydrostatic pumps are positive displacement pumps.

Most pumps work as open systems drawing oil at atmospheric pressure from a reservoir. It is essential that there are no cavities occurring at the suction side of the pump for this method to run well. So as to enable this to work right, the connection of the suction side of the pump is larger in diameter compared to the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is normally combined. A general choice is to have free flow to the pump, which means the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is often in open connection with the suction portion of the pump.

In a closed system, it is all right for there to be high pressure on both sides of the pump. Usually, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, usually axial piston pumps are used. Since both sides are pressurized, the pump body requires a separate leakage connection.