Hydraulic Pumps for Forklift

Forklift Hydraulic Pump - Commonly utilized in hydraulic drive systems; hydraulic pumps can be either hydrostatic or hydrodynamic.

Hydrodynamic pumps could be regarded as fixed displacement pumps. This means the flow through the pump for each pump rotation cannot be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These kinds have a much more complicated construction that means the displacement is capable of being adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

The majority of pumps function as open systems drawing oil at atmospheric pressure from a reservoir. It is essential that there are no cavities taking place at the suction side of the pump for this particular method to work well. So as to enable this to work correctly, 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 usually combined. A general option is to have free flow to the pump, meaning the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is normally in open connection with the suction portion of the pump.

In a closed system, it is acceptable 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, generally axial piston pumps are utilized. Because both sides are pressurized, the pump body requires a separate leakage connection.