Forklift Hydraulic Pumps

Hydraulic Pump for Forklift - Hydraulic pumps could be either hydrostatic or hydrodynamic. They are usually used in hydraulic drive systems.

A hydrodynamic pump could also be regarded as a fixed displacement pump because the flow through the pump for each and every pump rotation cannot be changed. Hydrodynamic pumps can even be variable displacement pumps. These types have a more complicated composition which means the displacement is capable of being altered. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all 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 particular method to run smoothly. So as to enable this to work right, the connection of the suction side of the pump is bigger in diameter compared to the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is usually combined. A common alternative 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 within open connection with the suction portion of the pump.

In the instances of a closed system, it is all right for both sides of the pump to be at high pressure. Usually in these situations, the tank is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, generally axial piston pumps are used. In view of the fact that both sides are pressurized, the pump body requires a different leakage connection.