Forklift Hydraulic Pump

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

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow all through the pump for each pump rotation cannot be changed. Hydrodynamic pumps can also be variable displacement pumps. These kinds have a much more complex composition that means the displacement is capable of being adjusted. Conversely, hydrostatic pumps are positive displacement pumps.

Nearly all 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 process to run smoothly. So as to enable this to function right, the connection of the suction side of the pump is bigger in diameter compared to the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is typically 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 often in open connection with the suction portion of the pump.

In the instances of a closed system, it is okay for both sides of the pump to be at high pressure. Usually in these situations, the reservoir is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, normally axial piston pumps are used. Because both sides are pressurized, the pump body needs a different leakage connection.