Hydraulic Pump for Forklift

Forklift Hydraulic Pump - Hydraulic pumps can be either hydrodynamic or hydrostatic. They are commonly used in hydraulic drive systems.

A hydrodynamic pump could even be regarded as a fixed displacement pump in view of the fact that the flow through the pump per each pump rotation cannot be altered. Hydrodynamic pumps can also be variable displacement pumps. These types have a more complex construction which means the displacement is capable of being adjusted. Conversely, hydrostatic pumps are positive displacement pumps.

Nearly all pumps work as open systems drawing oil at atmospheric pressure from a reservoir. It is important that there are no cavities occurring at the suction side of the pump for this 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. With regards to multi pump assemblies, the suction connection of the pump is usually combined. A general preference 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 frequently within open connection with the suction portion of the pump.

In the cases 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 instance of closed loop systems, normally axial piston pumps are utilized. As both sides are pressurized, the pump body requires a separate leakage connection.