Hydraulic Pump for Forklift

Hydraulic Pumps for Forklift - Hydraulic pumps can be either hydrostatic or hydrodynamic. They are commonly utilized in hydraulic drive systems.

A hydrodynamic pump could also be regarded as a fixed displacement pump because the flow through the pump per each pump rotation could not be adjusted. Hydrodynamic pumps could also be variable displacement pumps. These types have a much more complicated assembly which means the displacement can be changed. Conversely, 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 taking place at the suction side of the pump for this particular process to work efficiently. In order to enable this to work right, the connection of the suction side of the pump is larger in diameter as opposed to the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is usually combined. A common alternative is to have free flow to the pump, that 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 okay for there to be high pressure on both sides of the pump. Frequently, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, generally axial piston pumps are utilized. For the reason that both sides are pressurized, the pump body requires a different leakage connection.