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 considered a fixed displacement pump for the reason that the flow through the pump for every pump rotation cannot be changed. Hydrodynamic pumps can also be variable displacement pumps. These types have a more complicated assembly that means the displacement is capable of being adjusted. Conversely, hydrostatic pumps are positive displacement pumps.

Most pumps work as open systems drawing oil from a reservoir at atmospheric pressure. It is vital that there are no cavities occurring at the suction side of the pump for this particular process to work efficiently. So as to enable this to function right, 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 normally combined. A common choice is to have free flow to the pump, which means the pressure at the pump inlet is at least 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 all right for both sides of the pump to be at high pressure. Usually in these conditions, the tank is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, usually axial piston pumps are utilized. For the reason that both sides are pressurized, the pump body requires a separate leakage connection.