

Forklift Hydraulic Pump

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

A hydrodynamic pump can also be considered a fixed displacement pump since the flow throughout the pump for each pump rotation could not be changed. Hydrodynamic pumps could even be variable displacement pumps. These types have a much more complex construction that means the displacement is capable of being changed. Conversely, hydrostatic pumps are positive displacement pumps.

Most pumps function as open systems drawing oil from a reservoir at atmospheric pressure. It is essential that there are no cavities happening at the suction side of the pump for this method to function efficiently. So as to enable this to function correctly, 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 general option is to have free flow to the pump, that 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 cases of a closed system, it is acceptable 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 utilized. In view of the fact that both sides are pressurized, the pump body needs a different leakage connection.