

Hydraulic Pumps for Forklift

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

A hydrodynamic pump could even be considered a fixed displacement pump since the flow through the pump for each and every pump rotation cannot be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These types have a much more complicated construction that means the displacement is capable of being adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

The majority of pumps are working within open systems. Normally, the pump draws oil from a reservoir at atmospheric pressure. In order for this process to function well, it is essential that there are no cavitations happening at the suction side of the pump. In order to enable this to function correctly, the connection of the suction side of the pump is larger in diameter than the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is normally combined. A general option is to have free flow to the pump, meaning the pressure at the pump inlet is at least 0.8 bars and the body of the pump is normally in open connection with the suction portion of the pump.

In a closed system, it is all right 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 instance of closed loop systems, normally axial piston pumps are used. As both sides are pressurized, the pump body needs a separate leakage connection.