

Hydraulic Pump for Forklift

Hydraulic Pumps for Forklift - Usually used within hydraulic drive systems; hydraulic pumps can be either hydrodynamic or hydrostatic.

Hydrodynamic pumps could be considered fixed displacement pumps. This means the flow through the pump for each pump rotation could not be changed. Hydrodynamic pumps could also be variable displacement pumps. These types have a more complicated composition which means the displacement can be altered. On the other hand, hydrostatic pumps are positive displacement pumps.

Most pumps are functioning in open systems. Typically, the pump draws oil from a reservoir at atmospheric pressure. For this particular method to work well, it is imperative that there are no cavitations happening at the suction side of the pump. 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 usually combined. A common 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 frequently 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. Often, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, generally axial piston pumps are used. For the reason that both sides are pressurized, the pump body requires a separate leakage connection.