

Hydraulic Pumps for Forklift

Forklift Hydraulic Pump - Hydraulic pumps could be either hydrodynamic or hydrostatic. They are commonly used in hydraulic drive systems.

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow throughout the pump for each and every pump rotation could not be altered. Hydrodynamic pumps can even be variable displacement pumps. These types have a more complicated assembly which means the displacement can be changed. Conversely, hydrostatic pumps are positive displacement pumps.

The majority of pumps function as open systems drawing oil at atmospheric pressure from a reservoir. It is essential that there are no cavities happening at the suction side of the pump for this method to run smoothly. In order to enable this to work properly, 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 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 acceptable for there to be high pressure on both sides of the pump. Usually, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, normally axial piston pumps are used. For the reason that both sides are pressurized, the pump body requires a separate leakage connection.