

## Forklift Hydraulic Pump

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

Hydrodynamic pumps can be regarded as fixed displacement pumps. This means the flow all through the pump for every pump rotation could not be altered. Hydrodynamic pumps could even be variable displacement pumps. These types have a much more complex assembly which means the displacement is capable of being altered. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all pumps work 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 work well. In order to enable this to function properly, 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 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. Often, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, usually axial piston pumps are used. For the reason that both sides are pressurized, the pump body requires a separate leakage connection.