

## Hydraulic Pumps for Forklift

Forklift Hydraulic Pump - Commonly utilized in hydraulic drive systems; hydraulic pumps can be either hydrostatic or hydrodynamic.

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow throughout the pump for each pump rotation could not be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These models have a much more complicated composition that means the displacement is capable of being adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all pumps function as open systems drawing oil from a reservoir at atmospheric pressure. It is vital that there are no cavities happening at the suction side of the pump for this particular process to work well. 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. With regards to multi pump assemblies, the suction connection of the pump is typically combined. A general choice is to have free flow to the pump, that means the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is often 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. Frequently, 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 different leakage connection.