

Hydraulic Pumps for Forklift

Forklift Hydraulic Pumps - Normally utilized within hydraulic drive systems; hydraulic pumps can be either hydrostatic or hydrodynamic.

Hydrodynamic pumps could be considered fixed displacement pumps. This means the flow throughout the pump for each pump rotation could not be changed. Hydrodynamic pumps could also be variable displacement pumps. These types have a much more complicated composition which means the displacement could be adjusted. Conversely, hydrostatic pumps are positive displacement pumps.

The majority of pumps work as open systems drawing oil at atmospheric pressure from a reservoir. It is vital that there are no cavities taking place at the suction side of the pump for this process to run smoothly. So as to enable this to work right, 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 usually combined. A common preference is to have free flow to the pump, which means the pressure at the pump inlet is at least 0.8 bars and the body of the pump is normally within 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 case of closed loop systems, generally axial piston pumps are utilized. As both sides are pressurized, the pump body requires a separate leakage connection.