

Hydraulic Pumps for Forklift

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

A hydrodynamic pump can even be considered a fixed displacement pump as the flow throughout the pump for each and every pump rotation could not be changed. Hydrodynamic pumps could also be variable displacement pumps. These types have a much more complex assembly which means the displacement could be altered. On the other hand, hydrostatic pumps are positive displacement pumps.

The majority of pumps function as open systems drawing oil from a reservoir at atmospheric pressure. It is essential that there are no cavities occurring at the suction side of the pump for this particular method to run smoothly. In order to enable this to function right, 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 typically combined. A general option is to have free flow to the pump, which means the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is normally within open connection with the suction portion of the pump.

In the cases of a closed system, it is acceptable for both sides of the pump to be at high pressure. Usually in these situations, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, normally axial piston pumps are used. As both sides are pressurized, the pump body needs a separate leakage connection.