

Forklift Hydraulic Pump

Hydraulic Pumps for Forklift - Hydraulic pumps can be either hydrostatic or hydrodynamic. They are commonly utilized within hydraulic drive systems.

Hydrodynamic pumps can be regarded as fixed displacement pumps. This means the flow through the pump for every pump rotation cannot be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These types have a much more complex construction which means the displacement can be changed. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all pumps function as open systems drawing oil at atmospheric pressure from a reservoir. It is essential that there are no cavities taking place at the suction side of the pump for this method to function efficiently. So as to enable this to function correctly, the connection of the suction side of the pump is bigger in diameter than the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is normally combined. A general preference 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 normally within open connection with the suction portion of the pump.

In the cases of a closed system, it is okay 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 utilized. Because both sides are pressurized, the pump body requires a different leakage connection.