

Hydraulic Pump for Forklift

Hydraulic Pump for Forklift - Usually used within hydraulic drive systems; hydraulic pumps could be either hydrostatic or hydrodynamic.

A hydrodynamic pump may even be regarded as a fixed displacement pump because the flow all through the pump for every pump rotation cannot be changed. Hydrodynamic pumps could also be variable displacement pumps. These types have a more complicated assembly which means the displacement could be adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all pumps work 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 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 than the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is typically combined. A common 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 frequently in 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. Often in these situations, the tank is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, usually axial piston pumps are used. For the reason that both sides are pressurized, the pump body needs a separate leakage connection.