

Hydraulic Pumps for Forklift

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

A hydrodynamic pump may also be considered a fixed displacement pump for the reason that 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 assembly that means the displacement could be changed. 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 important that there are no cavities taking place at the suction side of the pump for this particular method to run well. In order to enable this to function properly, the connection of the suction side of the pump is bigger in diameter compared to the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is typically combined. A general choice 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 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. Frequently 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. Since both sides are pressurized, the pump body requires a different leakage connection.