

Hydraulic Pump for Forklift

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

A hydrodynamic pump may likewise be regarded as a fixed displacement pump as the flow throughout the pump for each pump rotation cannot be changed. Hydrodynamic pumps can also be variable displacement pumps. These kinds have a much more complicated construction that means the displacement is capable of being adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all pumps work as open systems drawing oil at atmospheric pressure from a reservoir. It is important that there are no cavities occurring at the suction side of the pump for this particular process to function smoothly. So as to enable this to function 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 normally combined. A general choice is to have free flow to the pump, that means the pressure at the pump inlet is at least 0.8 bars and the body of the pump is often in 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 conditions, the reservoir 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 different leakage connection.