Hydraulic Pump for Forklift

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

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow all through the pump for each pump rotation could not be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These types have a much more complicated assembly that means the displacement is capable of being changed. On the other hand, hydrostatic pumps are positive displacement pumps.

Most pumps are working in open systems. Typically, the pump draws oil at atmospheric pressure from a reservoir. In order for this particular method to function efficiently, it is vital that there are no cavitations occurring at the suction side of the pump. So as to enable this to function right, the connection of the suction side of the pump is bigger 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 choice is to have free flow to the pump, which means the pressure at the pump inlet is at least 0.8 bars and the body of the pump is normally in open connection with the suction portion of the pump.

In a closed system, it is acceptable for there to be high pressure on both sides of the pump. Usually, in closed systems, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, usually axial piston pumps are utilized. As both sides are pressurized, the pump body requires a different leakage connection.