

Hydraulic Pumps for Forklift

Forklift Hydraulic Pump - Hydraulic pumps could be either hydrodynamic or hydrostatic. They are usually used within hydraulic drive systems.

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow through the pump for each and every pump rotation cannot be adjusted. Hydrodynamic pumps can even be variable displacement pumps. These kinds have a much more complicated assembly which means the displacement is capable of being adjusted. Conversely, hydrostatic pumps are positive displacement pumps.

The majority of pumps are working within open systems. Typically, the pump draws oil at atmospheric pressure from a reservoir. For this particular method to function smoothly, it is essential that there are no cavitations taking place at the suction side of the pump. So as to enable this to function correctly, the connection of the suction side of the pump is larger in diameter compared to the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is typically combined. A common option is to have free flow to the pump, meaning 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 instances of a closed system, it is all right for both sides of the pump to be at high pressure. Frequently in these circumstances, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, normally axial piston pumps are used. As both sides are pressurized, the pump body requires a separate leakage connection.