

## Forklift Hydraulic Pump

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

Hydrodynamic pumps can be considered fixed displacement pumps. This means the flow all through 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 which means the displacement is capable of being altered. On the other hand, hydrostatic pumps are positive displacement pumps.

Most pumps work as open systems drawing oil from a reservoir at atmospheric pressure. It is essential that there are no cavities taking place at the suction side of the pump for this particular method to run smoothly. So as to enable this to function properly, the connection of the suction side of the pump is larger in diameter as opposed to the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is usually combined. A common choice 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 frequently in open connection with the suction portion of the pump.

In the cases of a closed system, it is all right for both sides of the pump to be at high pressure. Usually in these situations, the tank is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, normally axial piston pumps are used. Because both sides are pressurized, the pump body requires a separate leakage connection.