

## Hydraulic Pumps for Forklift

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

A hydrodynamic pump may also be considered a fixed displacement pump as the flow all through the pump for every pump rotation could not be changed. Hydrodynamic pumps can even be variable displacement pumps. These models have a more complex construction that means the displacement can be changed. Conversely, hydrostatic pumps are positive displacement pumps.

The majority of pumps work as open systems drawing oil at atmospheric pressure from a reservoir. It is vital that there are no cavities occurring at the suction side of the pump for this particular method to function well. In order to enable this to work 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 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 within 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. Often 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 used. As both sides are pressurized, the pump body needs a separate leakage connection.