

## Forklift Hydraulic Pumps

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

Hydrodynamic pumps could be considered fixed displacement pumps. This means the flow all through the pump per each pump rotation cannot be adjusted. Hydrodynamic pumps could also be variable displacement pumps. These models have a much more complicated composition that means the displacement is capable of being changed. Conversely, hydrostatic pumps are positive displacement pumps.

Most pumps are working in open systems. Usually, the pump draws oil from a reservoir at atmospheric pressure. In order for this particular process to run efficiently, it is vital that there are no cavitations taking place at the suction side of the pump. So as to enable this to work correctly, the connection of the suction side of the pump is bigger in diameter as opposed to the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is typically combined. A common alternative 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 a closed system, it is all right 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, normally axial piston pumps are utilized. Since both sides are pressurized, the pump body requires a different leakage connection.