## Forklift Hydraulic Pumps

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

A hydrodynamic pump can also be regarded as a fixed displacement pump as the flow through the pump per each pump rotation cannot be adjusted. Hydrodynamic pumps can also be variable displacement pumps. These models have a much more complicated assembly that means the displacement can be changed. On the other hand, hydrostatic pumps are positive displacement pumps.

Most pumps function 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 method to function smoothly. In order to enable this to function properly, 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 usually combined. A common option is to have free flow to the pump, that means the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is frequently 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. Frequently in these conditions, the reservoir is pressurized with 6-20 bars of boost pressure. In the case of closed loop systems, usually axial piston pumps are used. For the reason that both sides are pressurized, the pump body requires a different leakage connection.