

Hydraulic Pumps for Forklift

Forklift Hydraulic Pump - Normally utilized within hydraulic drive systems; hydraulic pumps can be either hydrodynamic or hydrostatic.

Hydrodynamic pumps could be regarded as fixed displacement pumps. This means the flow throughout the pump per each pump rotation could not be altered. Hydrodynamic pumps could even be variable displacement pumps. These types have a more complex assembly which means the displacement is capable of being adjusted. On the other hand, hydrostatic pumps are positive displacement pumps.

Most pumps function as open systems drawing oil from a reservoir at atmospheric pressure. It is vital that there are no cavities occurring at the suction side of the pump for this particular process to run efficiently. So as to enable this to function right, the connection of the suction side of the pump is larger in diameter than the connection of the pressure side. Where multi pump assemblies are concerned, the suction connection of the pump is normally combined. A common preference is to have free flow to the pump, meaning the pressure at the pump inlet is a minimum of 0.8 bars and the body of the pump is frequently 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 case of closed loop systems, usually axial piston pumps are used. Since both sides are pressurized, the pump body requires a different leakage connection.