

Hydraulic Pumps for Forklift

Forklift Hydraulic Pumps - Normally used in hydraulic drive systems; hydraulic pumps could be either hydrodynamic or hydrostatic.

A hydrodynamic pump could even be considered a fixed displacement pump since the flow throughout the pump for every pump rotation could not be adjusted. Hydrodynamic pumps could also be variable displacement pumps. These models have a much more complicated assembly which means the displacement is capable of being changed. Conversely, hydrostatic pumps are positive displacement pumps.

The majority of pumps work 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 process to function efficiently. So as to enable this to work correctly, the connection of the suction side of the pump is larger in diameter than the connection of the pressure side. With regards to multi pump assemblies, the suction connection of the pump is typically combined. A general alternative is to have free flow to the pump, which 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 instances of a closed system, it is all right for both sides of the pump to be at high pressure. Often in these conditions, the reservoir is pressurized with 6-20 bars of boost pressure. In the instance of closed loop systems, normally axial piston pumps are utilized. As both sides are pressurized, the pump body requires a different leakage connection.