

Forklift Hydraulic Pumps

Forklift Hydraulic Pump - Usually used in hydraulic drive systems; hydraulic pumps can be either hydrostatic or hydrodynamic.

A hydrodynamic pump may also be regarded as a fixed displacement pump in view of the fact that the flow through the pump per each pump rotation could not be adjusted. Hydrodynamic pumps could even be variable displacement pumps. These types have a more complicated assembly which means the displacement can be changed. On the other hand, hydrostatic pumps are positive displacement pumps.

Nearly all 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 particular method to run well. So as to enable this to work properly, 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 normally combined. A common preference 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 normally in open connection with the suction portion of the pump.

In the instances of a closed system, it is acceptable 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, generally axial piston pumps are utilized. Since both sides are pressurized, the pump body requires a separate leakage connection.