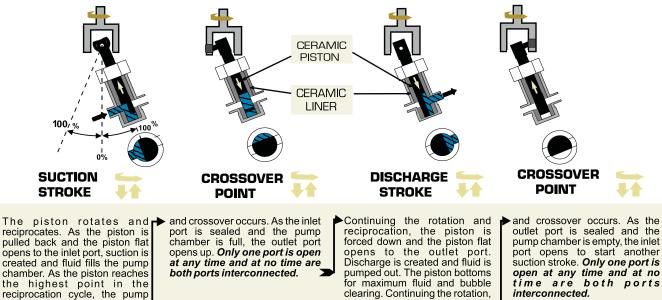
OPERATION

The valveless pumping function is accomplished by the synchronous rotation and reciprocation 📌 of the ceramic piston in the precisely mated ceramic cylinder liner. One complete piston revolution is required for each suction /discharge cycle as shown. The piston always bottoms for maximum fluid and bubble clearing.



the outlet port is then sealed

chamber is now at its maximum

volume capacity. Continuing the rotation, the inlet port is then sealed