

Application of Rotary Sensor in Haemodialysis machine

Haemodialysis is a way of replacing some of the functions of your kidney, if your kidneys have failed, by using a machine to filter and clean your blood. Blood is pumped out of your body to the machine where it is passed through a series of tiny tubes, in an 'artificial kidney' or 'dialyser'

PRINCIPLE: The principle of Haemodialysis is the same as other methods of dialysis; it involves diffusion of solutes across a semi permeable membrane.

- Haemodialysis utilizes counter current flow, where the dialysate is flowing in the opposite direction to blood flow in the extracorporeal circuit.
- Counter-current flow maintains the concentration gradient across the membrane at a maximum and increases the efficiency of the dialysis.
- It involves diffusion, osmosis and ultra filtration.

Rotary sensors are typically used in equipment to regulate blood flow to and from the patient during the dialysis procedure.

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Rotary Sensor

