

ABSTRACT

A ventricular assist device is provided, including a blood pump, a driveline and a feedthrough. The blood pump includes a pump housing, an axi-symmetric oval-shaped blood sac and stem assembly received in the pump housing, and a pressure sensing system
5 embedded in the pump housing. The driveline includes a pneumatic lumen, at least one electric wire and a tether included in a wall of the driveline, wherein the electric wires and the tether are disposed on the pneumatic lumen. The feedthrough connects the driveline to the pump housing.

(Fig. 1)