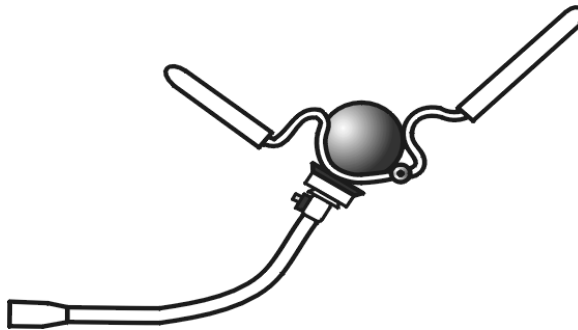


Hand Pump

The Hand Pump is an emergency or back-up power source that may be used to power the LVAD in the event of a critical Alarm state. The Hand Pump powers the LVAD by shuttling air behind the pump diaphragm.

NEVER use the Hand Pump while the patient is connected to a power source (either PBU or Batteries). Disconnect the patient from power source before hand pumping. For complete Hand Pumping instructions please see HeartMate XVE LVAS Emergency Procedures in this manual.

Note: Prior to hand pumping, the pump and LVAD must be primed. Refer to the directions on the Hand Pump label.



Hand Pumping

- 1 Disconnect System Controller from power source (ie, Drive Console, Batteries, PBU, or EPP). **Note:** ALWAYS disconnect from power source before hand pumping.
- 2 Connect Hand Pump to Vent Port.
- 3 Press and hold down white purge valve on Hand Pump.
- 4 Collapse bulb using your thumb.
- 5 Release white purge valve.
- 6 Release bulb.
- 7 Wait about ten (10) seconds, then press the white purge valve again and let the bulb inflate.
- 8 Separate and swing around handles.
- 9 Begin hand pumping by bringing together handles and releasing them at a rate of 60 - 90 pumps a minute. **Note:** Make sure the bulb inflates completely after each squeeze of the bulb and do NOT exceed 90 beats per minute.

