Respimatic 100
Emergency Respiration Assist Device

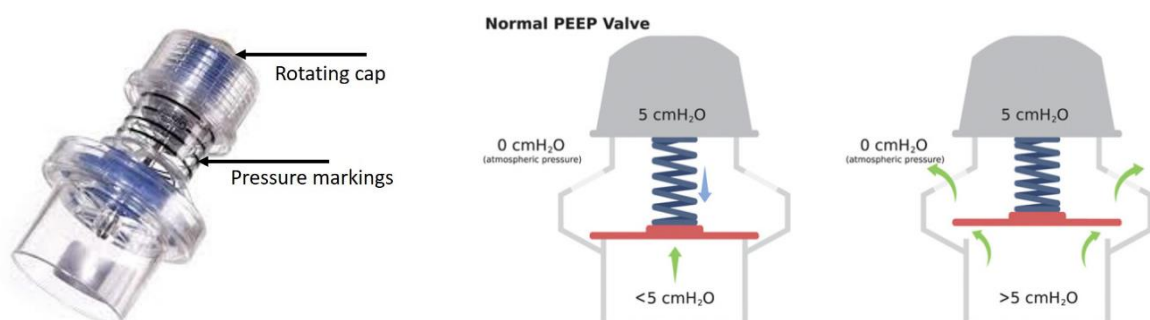# *Frequently Asked Questions*

What is a BVM bag?

A bag valve mask (BVM), sometimes referred to as an Ambu bag or a Manual Resuscitator Bag, is a self-inflating bag used to provide ventilation to the person not breathing normally. It consists of a self-inflating bag, one-way valve, mask, and an oxygen reservoir.
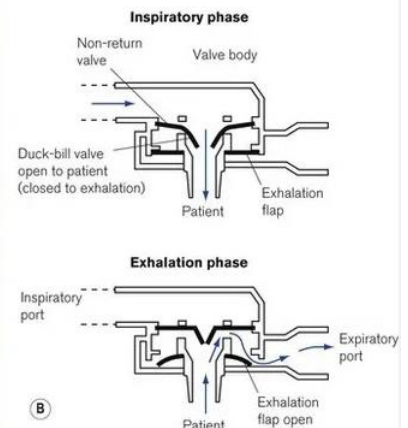

What is an oxygen reservoir?

A bag valve mask can be used without being attached to an oxygen tank to provide "room air" (21% oxygen) to the patient. However, BVM devices also can be connected to a separate bag reservoir, which can be filled with pure oxygen from a compressed oxygen source, thus increasing the amount of oxygen delivered to the patient.

What is a PEEP valve?

PEEP valves are adjustable pressure release valves. They are commonly used in conjunction with bag valve masks (BVMs) and vent exhaled gases to the atmosphere. When the pre-valve pressure exceeds the valve setpoint, a diaphragm opens and allows flow. When pre-valve pressure drops below the valve setpoint, the diaphragm closes and flow across the valve stops.

What is a Non-Rebreathing valve?

Non-rebreathing valves prevent rebreathing of the gases by ensuring unidirectional flow of gases. The inhaled and exhaled gases follow different paths, and the exhaled gas never finds its way into the inhalation tube.

What is a HME filter?

Heat and Moisture Exchanger Filter (HMEF) is usually incorporated with a microbiological filter that provides passive humidification.

HME Filter provides adequate humidification of inspired gas reduces the airway resistance, and lowers the incidence of infections and maintains the respiratory loads.

When should the BVM bag be replaced?

BVM bags have a limited lifetime, and the system issues a warning when it is time to replace the one in use. In addition, the BVM bag should be monitored for signs of fatigue every 4 hours of use. Replace the BVM bag if it fails to deliver the desired pressures or volumes, as this may be a sign of fatigue. Always replace the BVM bag between patients. Respimatic 100 has been tested with the Surginatal Disposable Resuscitator.

Why is the target pressure or volume not achievable sometimes?

It depends upon the size of the BVM bag and whether it is fatigued. Adjust the respiratory rate (RR) or inspiratory to expiratory time ratio (I:E). Check the breathing system for obstructions or kinks. Replace the resuscitator bag.

Does Respimatic 100 monitor FiO2?

Respimatic 100 doesn't have an internal oxygen sensor. You can use an accessory FiO_2 monitor, and SpO_2 pulse oximetry to monitor patient oxygenation. See the Respimatic 100 Operating Manual for more information on FiO_2 flow and minute ventilation.

Which Respimatic 100 parts should be replaced or cleaned between patients?

Replace all parts outside of the Respimatic 100 chassis, which are the ventilator tubings, filters, HME, patient valve assembly, and pressure sensing tubings, between patients. You should also replace the BVM bag inside the chassis between patients.

What patient monitoring is recommended with Respimatic 100?

It is recommended to monitor patient arterial blood gases and SpO_2, at a minimum. If you use Assist Control, it is also recommended that you conduct CO_2 monitoring as well.

Why does the dashboard lag the front panel by 1-2 breaths?

Respimatic 100 uses a free third-party free service for messaging across the internet. This service has limitations on the frequency of messages. That is the reason for the latency.

What is a missed interval on the dashboard?

Respimatic 100 uses a free third-party free service for messaging across the internet. This service has limitations on the size of the message payload. Depending on the information being sent, occasionally the payload sizes exceeds the limit.

Where is the dashboard recording saved?

Respimatic 100 dashboard saves the recording database in the browser on the computer being used. Thus, the recording saved on one browser is not directly available on another browser even though it may be on the same computer. Use the import/export feature to transfer the recording database between browsers or between computers.