CPR-2+® Adult BVM

With Tidal Volume Markings

Mercury Medical
Superior Solutions



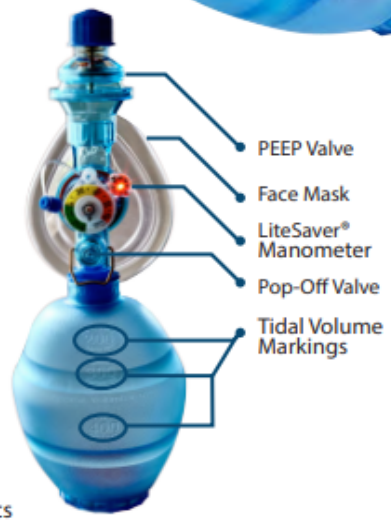
About The CPR-2+®

Mercury Medical CPR-2+® 1000 mL self-inflating Resuscitator Bag with Tidal Volume Markings was designed to improve the efficacy and safety of positive pressure ventilation (PPV) during cardiopulmonary resuscitation (CPR) in adult and pediatric patients, by following the American Heart Association (AHA) recommendations of lower tidal volumes (6-7 mL/Kg) and low ventilation rate (10/min), to help prevent ventilation injuries.

Mercury Medical's new CPR-2+® **#10-58514** advanced configuration gives clinicians more options to fine-tune the care they provide to their adult and pediatric patients (30-120 kg), by enabling them to control the stroke volume, stroke frequency, positive inspiratory pressure (PIP), positive end-expiratory pressure (PEEP), and to reduce viral/bacterial contamination, barotrauma and volutrauma during resuscitation.

CPR-2+® Resuscitator Bag #1058514 includes:

- PEEP Valve (0-20 cm H_2O) with integral bacterial/viral exhalation filter
- Adult Anatomical Cushion Face Mask
- LiteSaver® color-coded manometer (0-60 cm H_2O) with integrated timing light (10 breaths / minute)
- Pop-off Valve (40 cm H_2O) with override clip
- CPR-2+® 1000 mL self-inflating bag with tidal volume markings (200 mL, 300 mL, 400 mL)
- Oxygen bag reservoir
- Oxygen tubing (220 cm / 86.6 inches)



Clinical Advantages

CPR-2+ bag with Tidal Volume Markings for a Protective Lung Ventilation on Adults and Pediatrics

1. **Better Tidal Volume control (200-725 mL):** the CPR-2+® Resuscitator Bag has 3 tidal volume markings (200 mL, 300 mL, 400 mL) for intuitive hand/finger placement and assists in delivering predictable and consistent tidal volumes (Vt). This adds an additional metric of measurement to adapt to the individual patient needs, helps to lower the risk of positive pressure ventilation (PPV) injuries like volutrauma, gastric insufflation, vomiting and aspiration, therefore improving clinical outcomes. For adult patients above 70 kg, the stroke volume can be increased by squeezing the CPR-2+® Bag with one-hand (450 mL) or two-hands (725 mL).

2. **1-in-2 Resuscitator Bag for Adults and Pediatrics:** CPR-2+® 1000mL resuscitator bag is safe to use on adult and pediatric patients (30-120 kg), enhancing the ease of use during cardiopulmonary resuscitation, saving space, and streamlining inventory. The CPR-2+® bag can be connected to an oronasal face mask or to an intubated patient's endotracheal tube.

The below table shows indicative body weight (kg) and AHA recommended tidal volumes (mL):

Patient body weight (30-120 kg, BMI 20-25)	Tidal Volume Recommendation (6-7 mL/kg, AHA guidelines)	CPR bag squeezing technique
30 kg	200 mL	**2 fingers** (thumb-middle)
45 kg	300 mL	**2 fingers** (thumb-middle)
60 kg	400 mL	**2 fingers** (thumb-middle)
70 kg	450 mL	**1 hand** (5 fingers)
120 kg	725 mL	**2 hands** (10 fingers)

MR CONDITIONAL

DEHP-FREE

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CPR-2+® Adult BVM

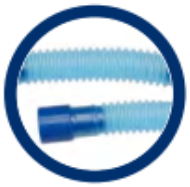
With Tidal Volume Markings



PEEP Valve
With Filter



Color-Coded
Manometer



Omni-Link®
& Flex-Link®



LiteSaver®
Manometer

Clinical Advantages Continued:

3. **Ventilation Rate control:** Mercury Medical's unique, patent protected LiteSaver® color-coded manometer (0-60 cm H_2O) with integrated timing light (10 breaths / min) helps assist healthcare professional with a flashing red light that blinks every 6 seconds, helping to provide 10 breaths / min (AHA guidelines for adults).

4. **Peak inspiratory pressure (PIP) control:** Mercury's accurate, easy to read, optional color-coded manometer helps to monitor PIP in real time and reduce risks of overinflation causing barotrauma. The manometer measures true peak inspiratory pressure, not approximate bag pressure, during resuscitation and assists in providing lung-protective ventilation.

5. **Positive end expiratory pressure (PEEP) control:** The spring-loaded PEEP valve is used to provide positive end expiratory pressure (0-20cm H_2O) to prevent the collapse of distal alveoli, promote recruitment of collapsed alveoli and improve oxygenation during resuscitation.

6. **Reducing viral/bacterial contamination:** Mercury Medical's unique, patent-protected PEEP Valve with Integral Filter protects from viral and bacterial infection. The exhalation filter has a tested Bacterial Filter Efficiency (BFE) and Viral Filter Efficiency (VFE) with a Mean Efficiency of >99.9% on particles with an approximate size of 3.2 microns, and a Resistance to Flow of 1.02cm H_2O at 8.0 LPM.

7. **Helps prevent barotrauma in pediatrics:** the pop-off valve enables safe use on pediatric patients and helps to prevent accidental overpressure ventilation keeping peak inspiratory pressure (PIP) below 40cm H_2O. The pop-off valve can be closed with its override clip allowing higher inspiratory pressure, if necessary.

8. **MR conditional, high-quality material:** made of latex-free and DEHP-free thermoplastic PVC, MR conditional with Static magnetic field of <3.0 Tesla and Spatial Gradient of < 3000 gauss/cm, with a shelf-life of 2 years.

9. **Patent protected:** Mercury's unique CPR-2+® Resuscitator Bag #1058514 and its accessories are protected by several patents already awarded (US 8,534,283 B2, US 8,522,618 B1; US 9,402,781 B2; US 10,098,809 B2; US D 748,773S) and more patents are pending.

10. **Approved:** FDA clearance and EC certificate in accordance with Regulation (EU) 2017/745

Studies

Multiple studies have shown the tidal volumes typically delivered by the adult BVM are often higher than recommended for lung-protective ventilation protocols.

It's In The Bag: Tidal Volumes in Adult and Pediatric Bag Valve Masks

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7234703/

Authers: Benjamin Dafilou, BA, corresponding author * Daniel Schwester, MICP, * Nathan Ruhl, PhD,† and Andreia Marques-Baptista, MD*

Ordering Information

ITEM	DESCRIPTION	QUANTITY
10-58514	CPR-2+®1000 mL self-inflating resuscitator bag with tidal volume markings, LiteSaver® color-coded manometer (0-60 cm H_2O) with integrated timing light (10 breaths / min), PEEP Valve (0-20 cm H_2O) with integral bacterial/viral Filter, Pop-off Valve (>40 cm H_2O) with override clip, Oxygen bag reservoir, Oxygen tubing (220 cm) and Adult Anatomical Clear Cushion Mask	6 /bx

Mercury Medical® Superior Solutions 11300 49th Street North, Clearwater, FL 33762-4807 | (800) 835-6633 | www.mercurymed.com