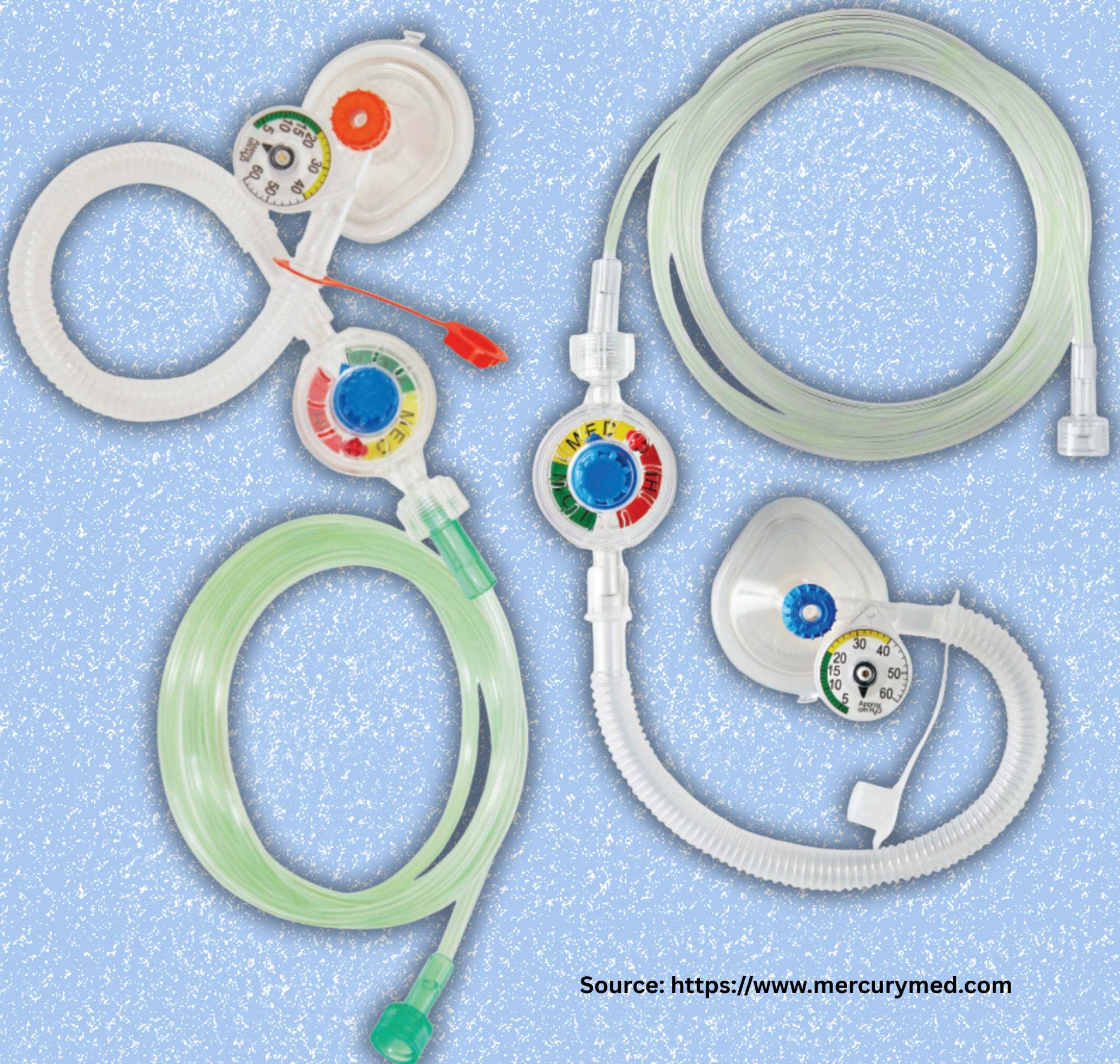


Disposable T-piece resuscitation



Source: <https://www.mercurymed.com>



Manometer

Peep

PIP

**Adjust PEEP to 5
cmH₂O and PIP to 20
cmH₂O.**

Step 1: Gas Source and Flow Rate

Connection: Attach the tubing to a flowmeter, ideally integrated with a gas mixer/blender, in accordance with NRP guidelines. **Adjustment:** Configure the gas flow to range from 5 to 15 liters per minute.

Step 2: Preliminary PIP Position

Adjustment: Rotate the Peak Inspiratory Pressure (PIP) control knob to the 10 o'clock position, similar to the orientation on an analog clock.

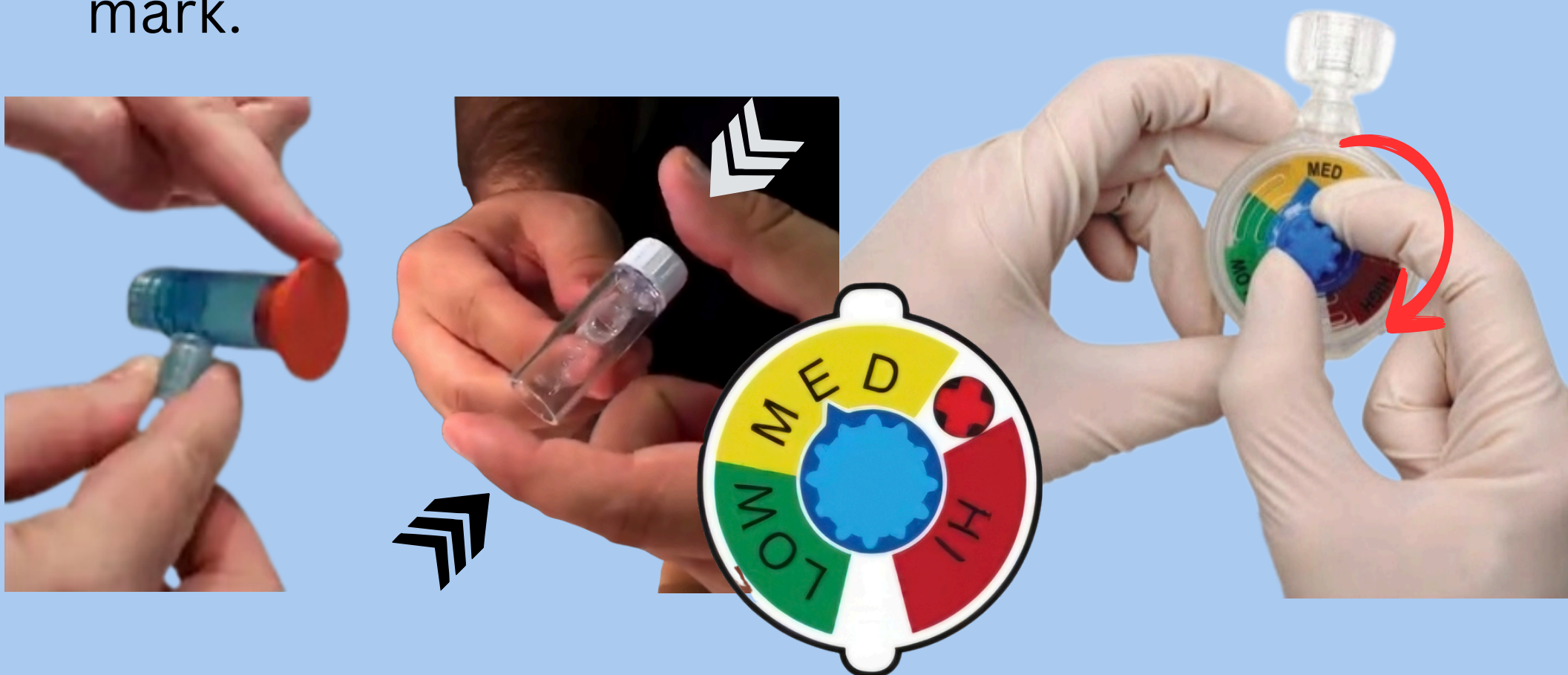


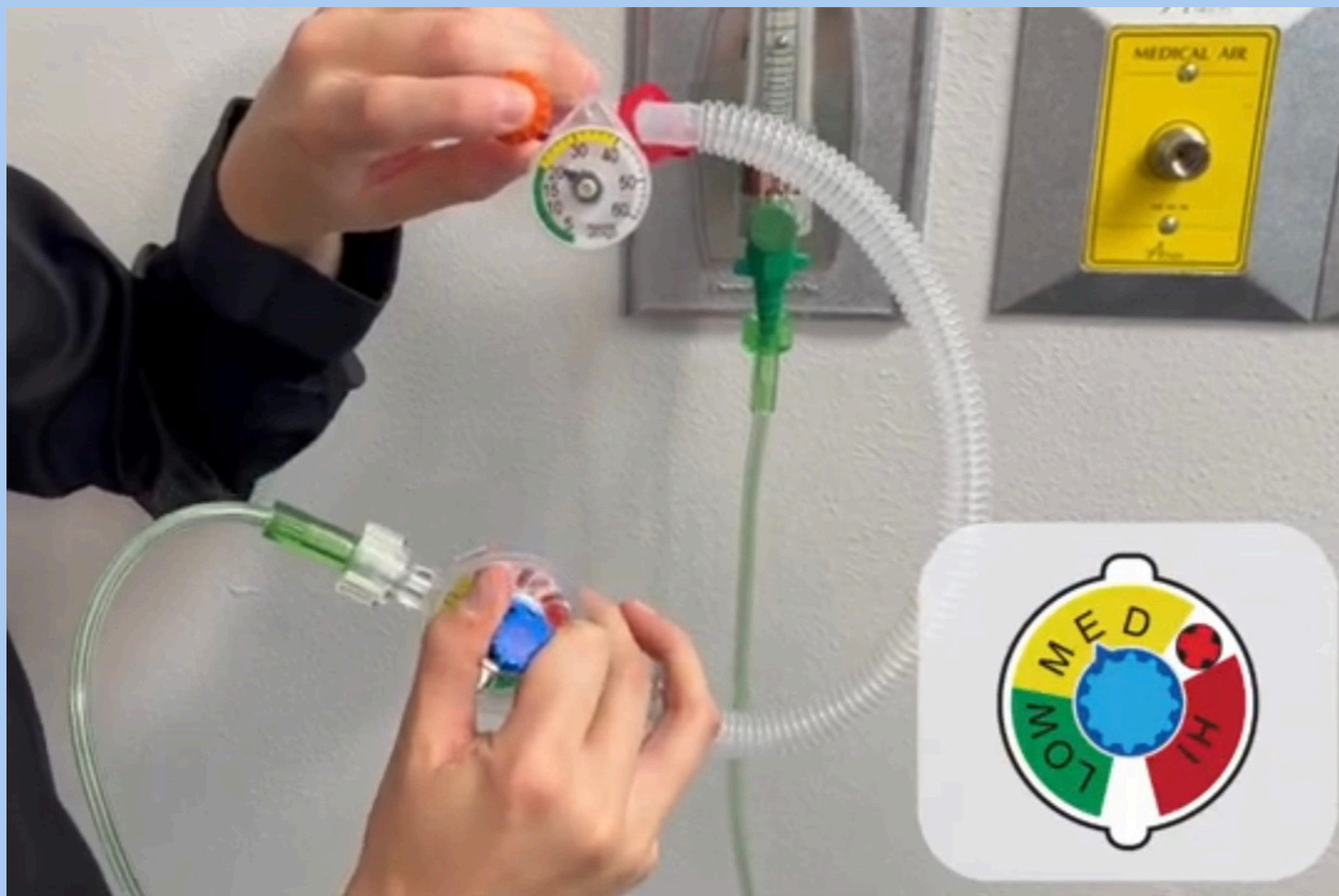
Step 3: Modify Peak Inspiratory Pressure (PIP)

Occlusion: maintain the red protective cap on the end of the circuit (or utilize a test lung or employ two fingers as illustrated in the figure).

Measurement: use your finger to cover the small hole in the T-piece (PEEP hole) to mimic inhalation. The objective is to achieve a reading of 20 cmH₂O on the manometer.

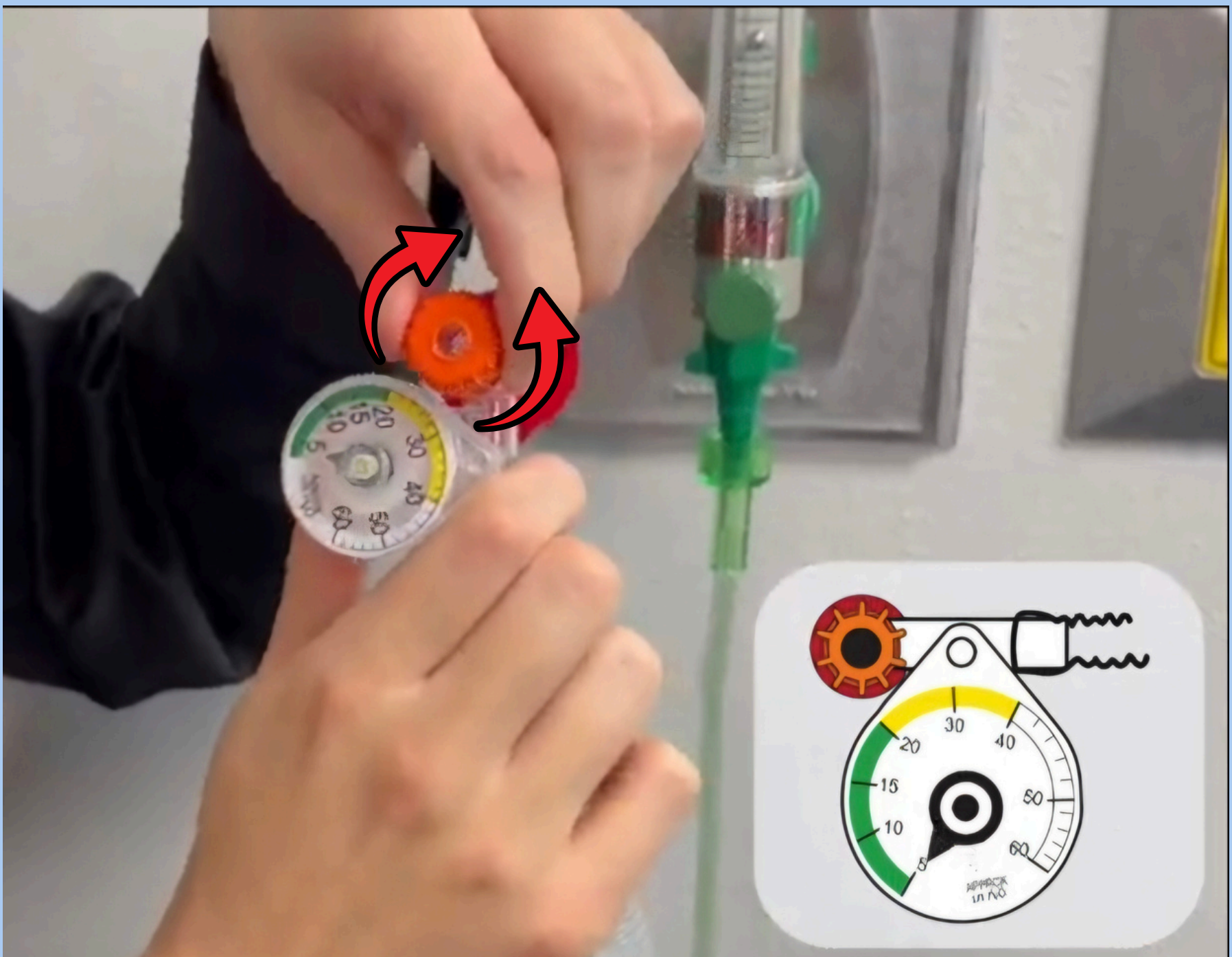
Adjustment: if the pressure gauge needle fails to reach 20 cmH₂O when the hole is covered, adjust the PIP controller until it attains that mark.





Step 4: Modify the Positive End-Expiratory Pressure (PEEP)

Adjustment: while maintaining the red cap secured, rotate the orange PEEP knob (as illustrated) until the pressure gauge displays a stable reading of 5 cmH₂O.



Two Manometer Choices Are Available



Lower Range
Color-Coded Manometer
0-40 cm H₂O

Original
Color-Coded Manometer
0-60 cm H₂O

PEEP Ranges

@ 5 LPM up to
approx. 2 cm H₂O

@ 8 LPM up to
approx. 6 cm H₂O

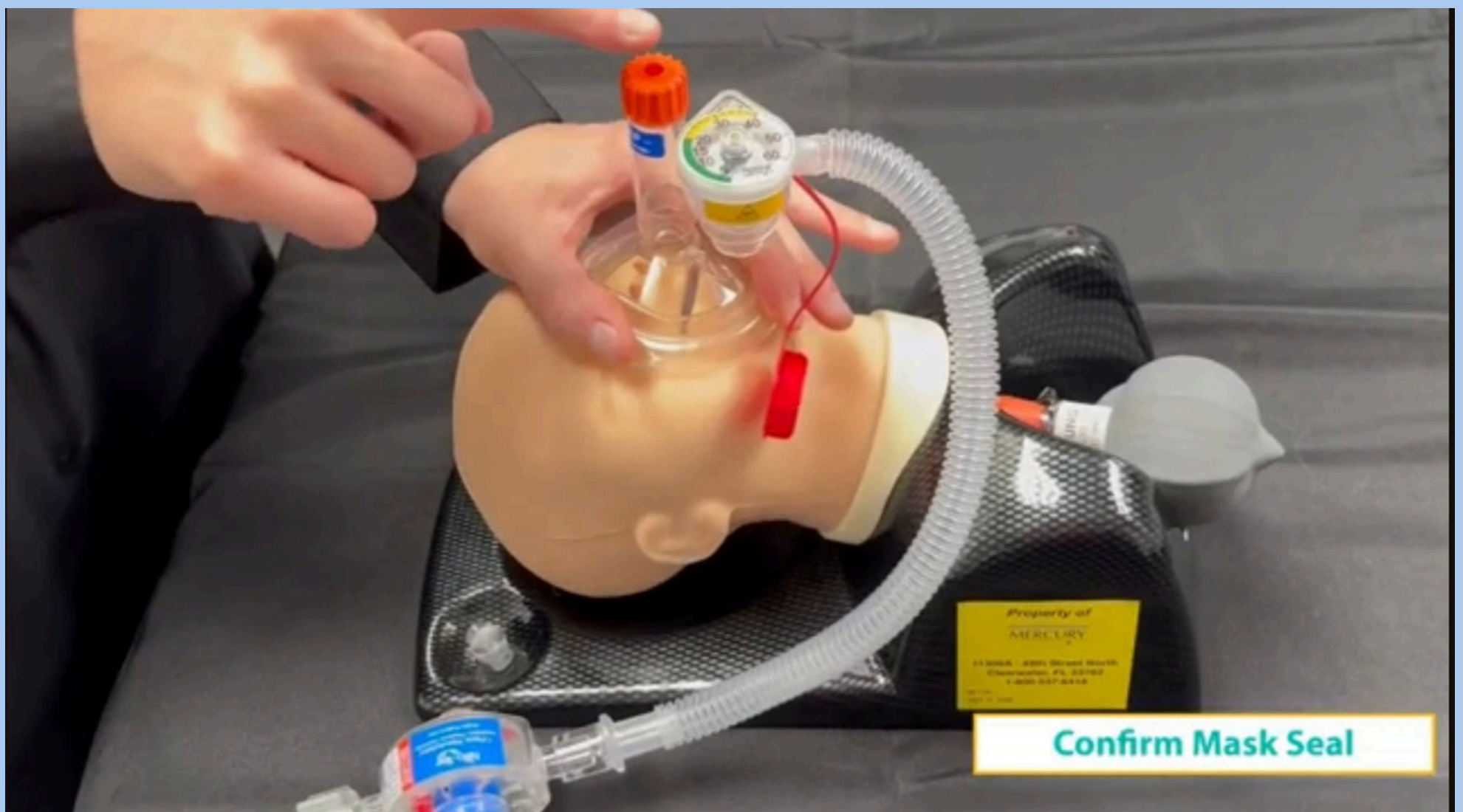
@ 10 LPM up to
approx. 9 cm H₂O

@ 15 LPM up to
approx. 15 cm H₂O

Step 5: Operation and Specialized Care

Ready for use: remove the protective cap and affix the anatomical mask.

Sealing: employ the "CE grip" technique to hold the mask, taking care not to apply pressure on the soft tissue beneath the baby's chin. Observe the pressure gauge to confirm that the mask is securely sealed.



Automatic Return to Safe Lane

There is no need to press the red button again if you wish to restore the pressure to normal levels.

To reactivate the safety lock, simply rotate the PIP controller counterclockwise. An audible click will be heard once the button descends past the 40 cmH₂O mark, signaling that the safety lock has been automatically reengaged.

Safety Note: The application of pressures exceeding 40 cmH₂O in neonatology constitutes an extreme measure and must always adhere strictly to the protocols established by the healthcare institution and the guidelines set forth by the NRP (Neonatal Resuscitation Program).



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