TOM THUMB RESUSCITATION UNIT (TT400 SERIES).

TRAINING INFORMATION.

CE0086

INDEX.

1. Introduction.

This training material is intended to be used only to train personnel in how the Tom Thumb Resuscitation Unit functions and its intended use.

Exact values for pressure / flow-rate of gas etc set on the Tom Thumb Resuscitation Unit and cycles per minute etc used during resuscitation should be laid down in a separate hospital protocol.

2. Care, Cleaning, Location and Sterilisation.

Clean using a damp cloth. The Tom Thumb is not intended to be sterilised.

Do not autoclave.

Do not allow moisture or foreign matter to enter the safety valve or adjustable valve.

Damage will occur if the Tom Thumb is subjected to severe mechanical shock or dropped.

The Tom Thumb should be serviced every 12 months, if the pressure gauge does not read zero (outside of the black band on the gauge) with no flow or if accuracy is doubted.

The rail bracket ⑦ is designed to fit most medical rails. It is advised that the Tom Thumb is not mounted close to a wall or to the side of an incubator particularly if the gauge is fitted to the end of the body (specials only). Spacers are available if required.

3. Warranty.

Viamed warranty ensures that goods are free from defects of manufacture for a period of one year from the date of shipment from Viamed.

Liability shall be limited solely to the replacement and repair of the goods and shall not include shipping costs or other incidental damages.

This warranty is void if any items are subjected to misuse, negligence, accident, or repairs other than those performed by Viamed or an authorised service centre.

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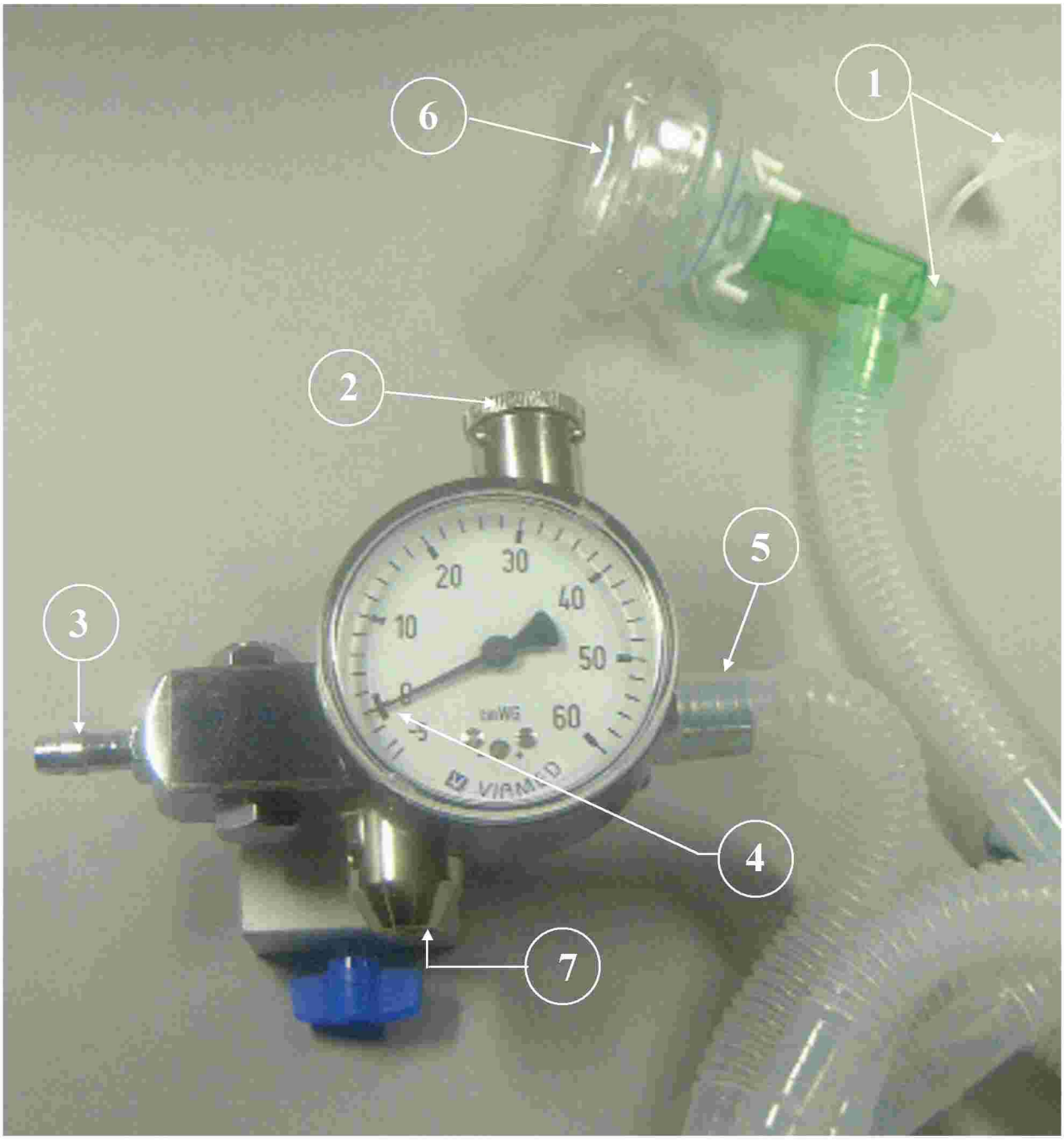
4. TT480.



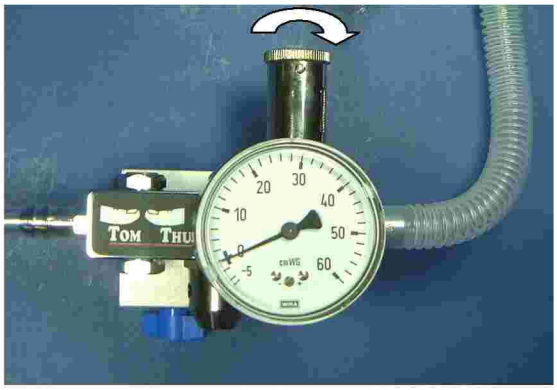
Important.

For use by qualified and trained personnel only.
Use flow rates of gas up to 15 litres / minute.
Adjust outlet pressure after altering the flow rate.
Do not attempt to adjust the safety valve ⑦.
O_2 inlet pressure from an external flowmeter.

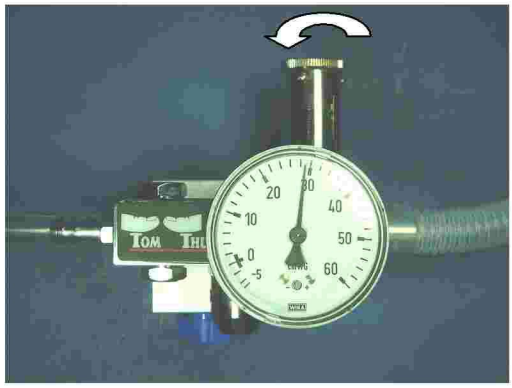
1.1 Pre-use Checks (TT480).

- Uncap the T piece port ①.

- Adjust the external 0-15 litres / min flowmeter to minimum and the adjustable valve control ② to minimum (fully counter clockwise).



- Connect the inlet ③ to the external flowmeter.
- Check that the pressure gauge ④ reads zero (within the black band on the gauge). If not, the Tom Thumb requires servicing.
- Connect the patient tubing ⑤ to the Tom Thumb outlet but do not apply the mask ⑥ to the patient.
- Set the external flowmeter to the required flow rate as per Hospital Protocols
- Occlude the mask and the T piece port. Gradually turn the adjustable valve control clockwise until the required outlet pressure is shown on the pressure gauge (*).



- The Tom Thumb is now ready for use.

1.2 Guideline for Use during Resuscitation (TT480).

- Follow the pre-use checks and set the required flow rate and outlet pressure.
- Apply the mask to the patient and cover the T piece port to inflate the patients' lungs at the set flow rate and pressure (*).
- Uncover the T piece port and allow the patients lungs to deflate (*).
- Repeat steps 2 & 3 as necessary during the resuscitation of the patient (follow the hospital protocol for resuscitation).

(*) Use the thumb to occlude the T piece port during pre-use checks and resuscitation. Disposable gloves or finger cots can be worn.

Use the T piece cap to occlude the T piece port on a longer-term basis where free flowing facial oxygen can be given to an infant patient breathing normally.

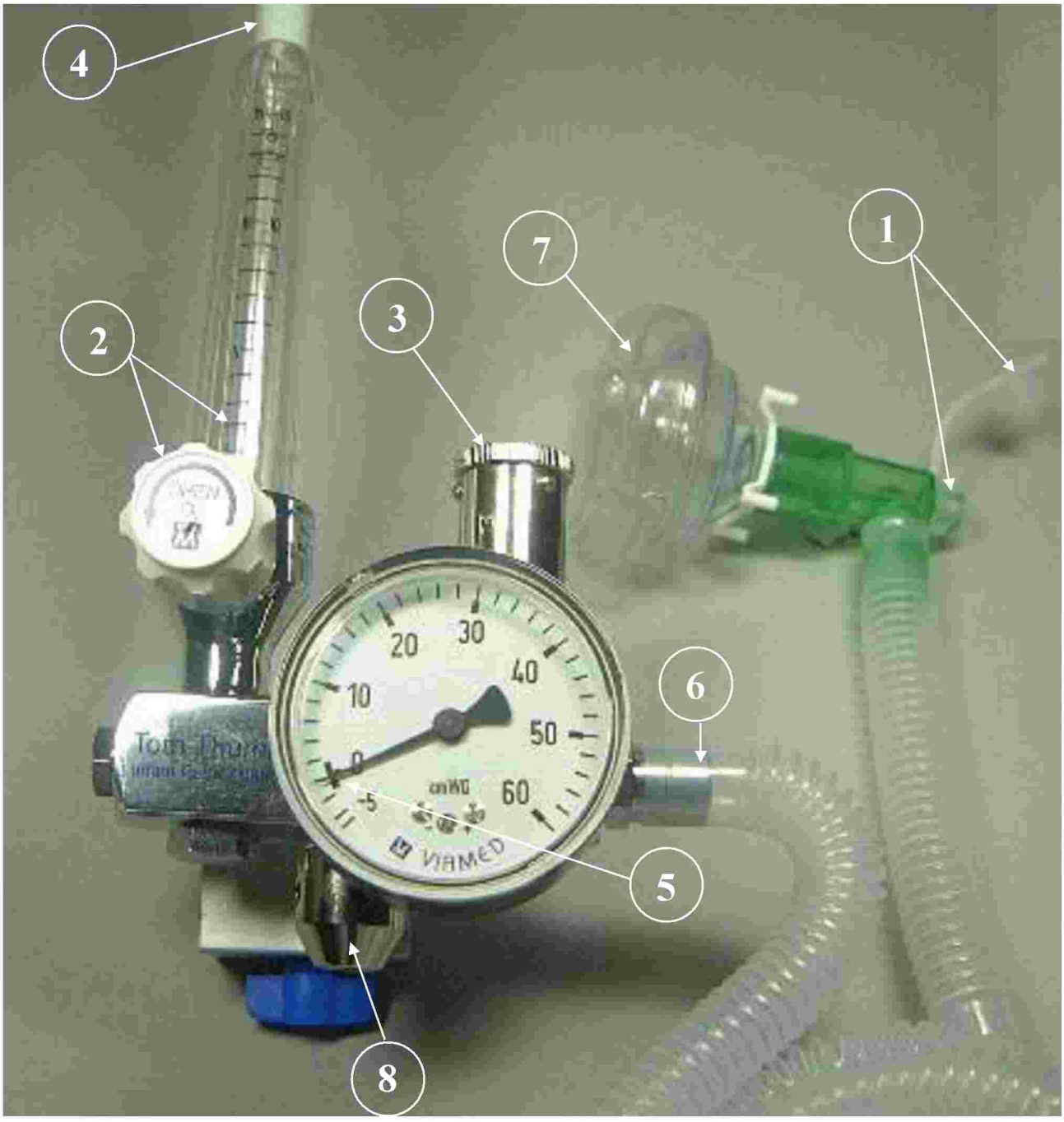
Oxygen leaving the mask can be used to flow over the face of the patient; use the mask in the vicinity of the infants face to produce an oxygen enriched mixture to breathe (follow the hospital protocol for this technique).

Important.

Do not apply the mask to the patient with the T piece port capped or permanently occluded under any circumstances.

NB. A "T" piece with a fixed PEEP facility can be used.

5. TT490-15.



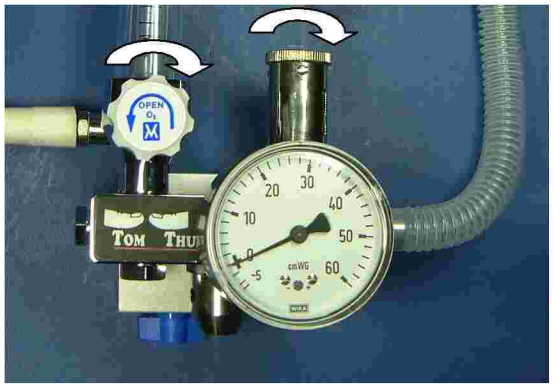
Important.

For use by qualified and trained personnel only.
Use flow rates within the range of the flowmeter.
Adjust outlet pressure after altering the flow rate.
Do not attempt to adjust the safety valve ⑧.
Recommended O_2 inlet pressure of 4 bar.

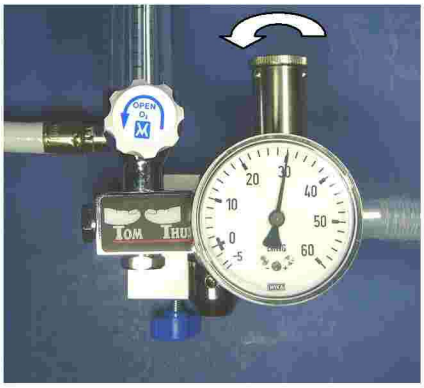
2.1 Pre-use Checks (TT490 & TT490-15).

- Uncap the T piece port ①.

- Adjust the flowmeter ② to minimum (fully clockwise) and the adjustable valve control ③ to minimum (fully counter clockwise).



- Connect the flowmeter inlet ④ to the O_2 supply.
- Check that the pressure gauge ⑤ reads zero (within the black band on the gauge). If not, the Tom Thumb requires servicing.
- Connect the patient tubing ⑥ to the Tom Thumb outlet but do not apply the mask ⑦ to the patient.
- Set the flowmeter to the required flow rate.
- Occlude the mask and the T piece port. Gradually turn the adjustable valve control clockwise until the required outlet pressure is shown on the pressure gauge (*).



- The Tom Thumb is now ready for use.

2.2 Guideline for Use during Resuscitation (TT490 & TT490-15).

- Follow the pre-use checks and set the required flow rate and outlet pressure.
- Apply the mask to the patient and cover the T piece port to inflate the patients' lungs at the set flow rate and pressure (*).
- Uncover the T piece port and allow the patients lungs to deflate (*).
- Repeat steps 2 & 3 as necessary during the resuscitation of the patient (follow the hospital protocol for resuscitation).

(*) Use the thumb to occlude the T piece port during pre-use checks and resuscitation. Disposable gloves or finger cots can be worn.

Use the T piece cap to occlude the T piece port on a longer-term basis where free flowing facial oxygen can be given to an infant patient breathing normally.

Oxygen leaving the mask can be used to flow over the face of the patient; use the mask in the vicinity of the infants face to produce an oxygen-enriched mixture to breathe (follow the hospital protocol for this technique).

Important.

Do not apply the mask to the patient with the T piece port capped or permanently occluded under any circumstances.

NB. A "T" piece with a fixed PEEP facility can be used.

6. Frequently Asked Questions.

Q. Having carried out the pre-use checks and set flow rate and pressure required, in use the Tom Thumb delivers a greater pressure than that set?

A. Care should be taken that the T piece and mask are totally occluded when carrying out the pre-use checks. Any gas leaking from the mask or T piece will cause a higher pressure to be delivered in use when the seal around the mask and T piece are better. The mask should be firmly pushed against a solid smooth surface to completely occlude it during the pre-use checks. When the Tom Thumb is installed in resuscitation cabinet, do not use the mattress / bedding to attempt a seal at the mask as gas will escape causing an apparent over delivery of pressure than that set. When correctly occluded, a steady hiss of gas can be heard from the adjustable valve.

Q. In use, the Tom Thumb pressure gauge needle rises to the set pressure but the patients' lungs are not inflating?

A. The Tom Thumb is delivering oxygen to the patient at the displayed pressure. If the lungs are not inflating, the patients' airway may be blocked or the mask incorrectly positioned.

Q. In use, the Tom Thumb pressure gauge needle does not reach the set pressure and the adjustable valve cannot be heard releasing gas?

A. There is a leak in the circuit. This is most likely to be due to not achieving a good seal between the mask and the patient but may also to be due to not occluding the Tee piece port correctly. A physical leak such as a rupture within the circuit is unlikely to be the cause as this would have prevented the pre-use checks being completed successfully. If in any doubt, carry out the pre-use checks again.

Q. The tubing is longer than required. Can it be cut to size?

A. Yes. The tubing has regularly spaced 'bubbles' between corrugated sections and the tube can be cut at these points if necessary.

Q. The mask supplied is too big for some infants. Can we use different masks?

A. Yes. The T piece is a standard size and masks from other manufacturers can be connected in place of the standard mask.

Q. Can I give less than 100% oxygen?

A. Yes, a twin oxygen and air system is available.