**VBM** Difficult Airway Algorithm

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**Plan A**
Initial endotracheal intubation plan

**Plan B**
Secondary endotracheal intubation plan

**Plan C**
Maintenance of oxygenation, ventilation, awakening, awake intubation technique, postponement of surgery

**Plan D**
Rescue techniques for the “cannot intubate – cannot oxygenate” situation

---

**Induction**

**Direct Laryngoscopy**

**Succeed**

**Tracheal Intubation**

**Cuff Pressure Gauges**

**Succeed**

**Intubation Stylet**

**Stylets**

**Succeed**

**Intubation Stylet**

**Laryngeal Tube Cuff Pressure Gauges**

**Succeed**

**Intubation Stylet**

**Laryngeal Tube Cuff Pressure Gauges**

**Succeed**

**Awake intubation technique**

**Endoscopy Mask Resuscitation Bags**

**Surgical Airway**

---

**Percutaneous Cricothyrotomy**

Narrow bore
Manujet III & Jet-Ventilation Catheter

Wide bore
Quicktrach I & II
Surgicric III

**Failed**

**Surgical Cricothyrotomy**

ScalpelCric
Surgicric II
### Laryngeal Tube
- Laryngeal Tube LTS-D: 4
- Accessories: 5

### Cuff Pressure Gauges
- Cuff Manometer: 5

### Stylets and Introducers
- S-Guide: 6
- i-Bougie: 6
- Pocket Introducer: 6

### Cricothyrotomy Devices
- ScalpelCric: 7
- Quicktrach I, II: 8
- Surgicric II, III: 9

### Masks, Oropharyngeal Airways and Resuscitation Bags
- Face Masks: 11
- Guedel Airways: 13
- Resuscitation Bags: 14

### Additional Products for Emergency
- Manual Suction Pump: 16
- Pelvic Sling: 17
- Pressure Infusion Cuffs: 18

### Airway Management Simulators
- BILL: 19
- Transparent Head: 19
- Crico-Trainer: 20

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**Disclaimer:**
The VBM homepage includes information of the complete VBM medical device portfolio. Whether a medical device is available in your region must be inquired. Please contact your VBM customer service.

The medical devices in this catalog are manufactured without the use of natural rubber latex, unless otherwise specified. The medical devices in this catalog do not contain phthalates which require labelling according to CLP Regulation (EC) 1272/2008.

Find our full range of products on [www.vbm-medical.com](http://www.vbm-medical.com).
Here you will find our media centre with additional information such as application videos, brochures, flyers etc.
Laryngeal Tube

Laryngeal Tube LTS-D
The 2nd generation supraglottic airway device

The LTS-D complies with a built-in drain tube (up to 18 Fr) preventing the risk of aspiration.

The Laryngeal Tube also stands out for its unique high volume, low pressure cuffs. The extremely thin wall is atraumatic to the pharyngeal mucosa and seals the hypopharynx reliably at low cuff pressures (< 60 cmH2O). Soft material and rounded edges additionally enhance patient comfort and safety.

The LTS-D is designed to be easy to use with minimal training. The colour coded system has proven invaluable in emergencies as the syringe indicates the recommended maximum inflation volume. The Laryngeal Tube allows correct ventilation - even in situations with limited space.

Order information

Laryngeal Tube LTS-D
For single use, sterile

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Weight / Height</th>
<th>Colour</th>
<th>Single Set With colour coded syringe</th>
<th>Set of 10</th>
<th>Emergency Set With colour coded syringe</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Newborn</td>
<td>&lt; 5 kg</td>
<td>Transparent</td>
<td>REF 32-06-100-1</td>
<td>REF 32-06-000-1</td>
<td>Child (# 0, 1, 2, 2.5) REF 32-06-309-1</td>
</tr>
<tr>
<td>1</td>
<td>Infant</td>
<td>5 – 12 kg</td>
<td>White</td>
<td>REF 32-06-101-1</td>
<td>REF 32-06-001-1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Child</td>
<td>12 – 25 kg</td>
<td>Green</td>
<td>REF 32-06-102-1</td>
<td>REF 32-06-002-1</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>Child</td>
<td>125 – 150 cm</td>
<td>Orange</td>
<td>REF 32-06-125-1</td>
<td>REF 32-06-025-1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Adult</td>
<td>&lt; 155 cm</td>
<td>Yellow</td>
<td>REF 32-06-103-1</td>
<td>REF 32-06-003-1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Adult</td>
<td>155 – 180 cm</td>
<td>Red</td>
<td>REF 32-06-104-1</td>
<td>REF 32-06-004-1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Adult</td>
<td>&gt; 180 cm</td>
<td>Purple</td>
<td>REF 32-06-105-1</td>
<td>REF 32-06-005-1</td>
<td></td>
</tr>
</tbody>
</table>

VBM Emergency Medicine
Laryngeal Tube

**Accessories**

**Catheter Mount Tubings**
For single use

<table>
<thead>
<tr>
<th>Length: 15 cm, sterile</th>
<th>Box</th>
<th>Length: 30 cm, non-sterile</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 60-60-150-1</td>
<td>25</td>
<td>REF 60-60-300</td>
<td>10</td>
</tr>
</tbody>
</table>

**Syringe for Laryngeal Tube**
For single use, colour coded

<table>
<thead>
<tr>
<th>Size</th>
<th>REF</th>
<th>For Laryngeal Tube</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 ml</td>
<td>54-04-111</td>
<td># 0, 1</td>
<td>10</td>
</tr>
<tr>
<td>60 ml</td>
<td>54-04-444</td>
<td>#0 – 3</td>
<td>10</td>
</tr>
<tr>
<td>100 ml</td>
<td>54-04-555</td>
<td>#0 – 5</td>
<td>10</td>
</tr>
</tbody>
</table>

**Cuff Pressure Gauges**

**Cuff Manometer** – Analog Cuff Pressure Gauge

**Universal**
Ø 68 mm scale
With hook
Scala with two green ranges
- For tracheal tubes (22 – 32 cmH₂O)
- For Laryngeal Tubes and Laryngeal Masks (32 – 60 cmH₂O)

REF 54-07-000

**Connecting Tube**
For single use, Material: PVC

<table>
<thead>
<tr>
<th>Length</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 cm</td>
<td>54-05-112</td>
<td>10</td>
</tr>
<tr>
<td>200 cm</td>
<td>54-05-113</td>
<td>10</td>
</tr>
</tbody>
</table>

**Biteblock for LTS-D**
With elastic necktape
For single use, sterile

<table>
<thead>
<tr>
<th>Size</th>
<th>REF</th>
<th>Fits Laryngeal Tube</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>40-66-050-1</td>
<td>#2, 2.5</td>
<td>20</td>
</tr>
<tr>
<td>6</td>
<td>40-66-060-1</td>
<td>#3, 4, 5</td>
<td>20</td>
</tr>
</tbody>
</table>
S-Guide

Malleable intubating stylet for video laryngoscopy

- Lumen-design, O₂ Connector included
- Centimetre marking
- Unique design:
  1. Soft tip
  2. Malleable segment (up to length 42 cm)
  3. Flexible segment (from length 42 cm)
- For single use, sterile

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>For tracheal tube</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>15Fr</td>
<td>65 cm</td>
<td>≥ 6.0 mm</td>
<td>33-90-650-1</td>
<td>5</td>
</tr>
</tbody>
</table>

i-Bougie

To facilitate orotracheal intubation

- Oxygenate, 2 types of O₂ Connectors included
- Rounded, atraumatic distal tip with lateral openings
- Centimetre marking from 5 to 40 cm
- Material:
  - Low friction surface
  - Allows shaping of the i-Bougie
- For single use, sterile

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>For tracheal tube</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>14Fr</td>
<td>70 cm</td>
<td>≥ 6.0 mm I.D.</td>
<td>33-70-700-1</td>
<td>5</td>
</tr>
</tbody>
</table>

Pocket Introducer

Ideal space solution for emergency bags and vehicles, helicopters, lab coat pockets, crash carts, etc.

- Folded to 20 cm, unfolds to 65 cm
- Ready for use within seconds
- Preformed tip
- Centimetre marking
- For single use, sterile

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>For tracheal tube</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>15Fr</td>
<td>65 cm</td>
<td>≥ 6.0 mm</td>
<td>33-80-650-1</td>
<td>5</td>
</tr>
</tbody>
</table>

In robust plastic cartridge

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>For tracheal tube</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>15Fr</td>
<td>65 cm</td>
<td>≥ 6.0 mm</td>
<td>33-81-650-1</td>
<td>1</td>
</tr>
</tbody>
</table>
The ScalpelCric from VBM is a surgical set for cricothyrotomy according to the scalpel technique. The set has been developed to match the latest recommendations from the DAS (Difficult Airway Society) 2015 Guidelines. Based on the simple description of ‘stab, twist, bougie, tube’, the ScalpelCric is meant to facilitate the execution of the scalpel technique.

Each component is designed to enhance the safety and efficacy of the technique. The set is packed in a specific sterile pouch with each component organised in the order of use. This reduces the risk of confusion at the critical time of the procedure.

Scalpel # 10, 14 Fr bougie (40 cm) with angled and rounded tip, 6.0 mm cuffed tube with smooth tip, extension tubing with suction capability, syringe for cuff inflation and necktape for tube fixation.

**Use**

1. Stab  
2. Twist  
3. Bougie  
4. Tube

**Order information**

**ScalpelCric**  
1 Scalpel # 10  
2 14 Fr bougie (40 cm)  
3 6.0 mm cuffed tube  
4 Extension tubing  
5 Syringe 10 ml  
6 Necktape  

**ScalpelCric training set**  
Non sterile  

REF 30-08-447 | Box 1  

**Sterile area**
Cricothyrotomy Devices

**Quicktrach I, II**

Quicktrach I and II are two sets of percutaneous cricothyrotomy according to the technique of catheter over the needle. A quick airway access is made possible via a one-step procedure. An incision by scalpel isn’t necessary. The sterile sets are pre-assembled and immediately ready for use.

### Order information

**Quicktrach I in blister packaging**
For single use, sterile

<table>
<thead>
<tr>
<th>Patient</th>
<th>I.D.</th>
<th>Quicktrach I</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant</td>
<td>1.5 mm</td>
<td>REF 30-04-015-1</td>
<td>1</td>
</tr>
<tr>
<td>Child</td>
<td>2.0 mm</td>
<td>REF 30-04-002-1</td>
<td>1</td>
</tr>
<tr>
<td>Adult</td>
<td>4.0 mm</td>
<td>REF 30-04-004-1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Quicktrach I in plastic tube**
For single use, sterile
Ideal for emergency bags (compact and robust)

<table>
<thead>
<tr>
<th>Patient</th>
<th>I.D.</th>
<th>Quicktrach I</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child</td>
<td>2.0 mm</td>
<td>REF 30-04-902-1</td>
<td>1</td>
</tr>
<tr>
<td>Adult</td>
<td>4.0 mm</td>
<td>REF 30-04-904-1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Quicktrach II in blister packaging**
For single use, sterile

<table>
<thead>
<tr>
<th>Patient</th>
<th>I.D.</th>
<th>Quicktrach II with Cuff</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>4.0 mm</td>
<td>REF 30-10-004-1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Quicktrach II in plastic tube**
For single use, sterile
Ideal for emergency bags (compact and robust)

<table>
<thead>
<tr>
<th>Patient</th>
<th>I.D.</th>
<th>Quicktrach II with Cuff</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>4.0 mm</td>
<td>REF 30-10-904-1</td>
<td>1</td>
</tr>
</tbody>
</table>

Application video: Quicktrach II
Surgical airway is the ultima ratio for the unsuccessful arm of the emergency pathway. Identification of the cannot intubate – cannot ventilate scenario should result in immediate consideration of surgical airway access. Delays in achieving airway control and oxygenation will lead to hypoxic brain injury.

The incidence level of cricothyrotomy is estimated at approximately 1% of all emergency airway cases. In order to master a cricothyrotomy in an emergency successfully, training on simulators seems to be indispensable.

VBM provides specific devices for every scenario of the surgical airway, like:

- Surgical airway with Surgicric II
- Narrow bore cannula with Jet-Ventilation Catheters and Manujet III
- Wide bore cannula with Quicktrach I, II and Surgicric III

The main feature of Surgicric is the special combination of tube and dilator. The locking mechanism and the soft tip maximise patient safety and reduce the risk of injury.

Pack size: 24 cm (L) x 13 cm (W) x 4 cm (H)
Unfolded size / sterile area: 56 cm (L) x 39 cm (W)
Cricothyrotomy Devices

**Surgicric II – Classic surgical technique**

1. Scalpel #11
2. Syringe 10 ml
3. 6.0 mm cuffed tube with dilator
4. Necktape
5. Extension tubing
6. Tracheal hook
7. Blunt scissors
8. Speculum

*Surgicric II*

For single use, sterile

REF 30-08-117-1 | Box 1

**Surgicric III – Seldinger technique**

1. Scalpel #11
2. Syringe 10 ml
3. 6.0 mm cuffed tube with dilator
4. Necktape for tube
5. Extension tubing
6. Necktape for introducer needle
7. Introducer needle
8. Guidewire

*Surgicric III*

For single use, sterile

REF 30-08-227-1 | Box 1
## Face Masks

### Silicone Face Masks

#### Reusable

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Connection</th>
<th>Colour code</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Child</td>
<td>22 mm I.D.</td>
<td>Green</td>
<td>35-65-222</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Adult, small</td>
<td>22 mm I.D.</td>
<td>Yellow</td>
<td>35-65-223</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Adult, medium</td>
<td>22 mm I.D.</td>
<td>Red</td>
<td>35-65-224</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Adult, large</td>
<td>22 mm I.D.</td>
<td>Purple</td>
<td>35-65-225</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Adult, extra large</td>
<td>22 mm I.D.</td>
<td>Blue</td>
<td>35-65-226</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Bi-Mask with silicone lip

Silicone mask with internal plastic shell (PSU)

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Connection</th>
<th>Colour code</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Child</td>
<td>22 mm I.D.</td>
<td>Green</td>
<td>35-65-222</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3 Adult, small</td>
<td>22 mm I.D.</td>
<td>Yellow</td>
<td>35-65-223</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4 Adult, medium</td>
<td>22 mm I.D.</td>
<td>Red</td>
<td>35-65-224</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5 Adult, large</td>
<td>22 mm I.D.</td>
<td>Purple</td>
<td>35-65-225</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6 Adult, extra large</td>
<td>22 mm I.D.</td>
<td>Blue</td>
<td>35-65-226</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

#### Mask with plastic dome and inflatable cushion

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Connection</th>
<th>Colour code</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Child</td>
<td>22 mm I.D.</td>
<td>Green</td>
<td>35-70-222</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3 Adult, small</td>
<td>22 mm I.D.</td>
<td>Yellow</td>
<td>35-70-223</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4 Adult, medium</td>
<td>22 mm I.D.</td>
<td>Red</td>
<td>35-70-224</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5 Adult, large</td>
<td>22 mm I.D.</td>
<td>Purple</td>
<td>35-70-225</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6 Adult, extra large</td>
<td>22 mm I.D.</td>
<td>Blue</td>
<td>35-70-226</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

#### Pediatric Mask, round

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Connection</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Newborn</td>
<td>15 mm O.D.</td>
<td>80-11-000</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>Infant</td>
<td>15 mm O.D.</td>
<td>80-11-001</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Child</td>
<td>22 mm I.D.</td>
<td>80-11-002</td>
<td>10</td>
</tr>
</tbody>
</table>
Face Masks

PVC Face Masks
For single use

Order information

Mask with inflatable cushion

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Connection</th>
<th>Colour code</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Newborn</td>
<td>15 mm O.D.</td>
<td>-</td>
<td>35-40-201</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Infant</td>
<td>15 mm O.D.</td>
<td>-</td>
<td>35-40-202</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Child</td>
<td>22 mm I.D.</td>
<td>Yellow</td>
<td>35-40-203</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Adult, small</td>
<td>22 mm I.D.</td>
<td>Red</td>
<td>35-40-204</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Adult, medium</td>
<td>22 mm I.D.</td>
<td>Purple</td>
<td>35-40-205</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Adult, large</td>
<td>22 mm I.D.</td>
<td>Blue</td>
<td>35-40-206</td>
<td>10</td>
</tr>
</tbody>
</table>

Accessories

For Silicone and PVC Face Masks

Hook ring, Ø 33 mm
Fits masks with plastic dome
Reusable, Material: Metal

REF 80-11-266 | Box 10

Hook ring, Ø 30 - 33 mm
Fits Bi-Masks
Reusable, Material: PSU

REF 35-60-266 | Box 10

Fixation tape
For single use, Material: Isoprene

<table>
<thead>
<tr>
<th>Patient</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>35-30-255</td>
<td>10</td>
</tr>
</tbody>
</table>

Fixation tape
Reusable, Material: Silicone

<table>
<thead>
<tr>
<th>Patient</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child</td>
<td>35-70-155</td>
<td>10</td>
</tr>
<tr>
<td>Adult</td>
<td>35-70-255</td>
<td>10</td>
</tr>
</tbody>
</table>
Oropharyngeal Airways

Guedel Airways

Benefits and Features
- Atraumatic device made of soft material with efficient bite block
- Tracheal tube guidance and fixation thanks to the open flange and lateral clamp
- Tube-guiding channel with same lumen from proximal to distal end to allow largest possible suction catheters
- Open side with smooth inner surface facilitates suctioning

Order information

Guedel Airway

<table>
<thead>
<tr>
<th>Size</th>
<th>Colour code</th>
<th>Length</th>
<th>Max. tracheal tube</th>
<th>For single use, sterile, Material: EVA</th>
<th>Reusable, Material: PUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>Light blue</td>
<td>3.5 cm</td>
<td>3.0 mm I.D.</td>
<td>REF 40-20-007-1</td>
<td>REF 40-40-007</td>
</tr>
<tr>
<td>00</td>
<td>Dark blue</td>
<td>5.0 cm</td>
<td>4.0 mm I.D.</td>
<td>REF 40-20-008-1</td>
<td>REF 40-40-008</td>
</tr>
<tr>
<td>0</td>
<td>Black</td>
<td>6.0 cm</td>
<td>4.5 mm I.D.</td>
<td>REF 40-20-009-1</td>
<td>REF 40-40-009</td>
</tr>
<tr>
<td>1</td>
<td>White</td>
<td>7.0 cm</td>
<td>6.0 mm I.D.</td>
<td>REF 40-20-010-1</td>
<td>REF 40-40-010</td>
</tr>
<tr>
<td>2</td>
<td>Green</td>
<td>8.5 cm</td>
<td>7.0 mm I.D.</td>
<td>REF 40-20-020-1</td>
<td>REF 40-40-020</td>
</tr>
<tr>
<td>3</td>
<td>Yellow</td>
<td>9.0 cm</td>
<td>8.0 mm I.D.</td>
<td>REF 40-20-030-1</td>
<td>REF 40-40-030</td>
</tr>
<tr>
<td>4</td>
<td>Red</td>
<td>10.0 cm</td>
<td>9.0 mm I.D.</td>
<td>REF 40-20-040-1</td>
<td>REF 40-40-040</td>
</tr>
<tr>
<td>5</td>
<td>Purple</td>
<td>11.0 cm</td>
<td>9.5 mm I.D.</td>
<td>REF 40-20-050-1</td>
<td>REF 40-40-050</td>
</tr>
</tbody>
</table>

*Contains or presence of natural rubber latex.
Resuscitation Bags

Silicone Resuscitation Bags

Order information

Reusable, with barcode and serial number, intake valve with built-in reservoir valve

<table>
<thead>
<tr>
<th>Resuscitation Bag</th>
<th>Infant 250 ml</th>
<th>Child 500 ml</th>
<th>Adult 2000 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 cmH₂O pressure relief</td>
<td>REF 80-10-300</td>
<td>REF 80-10-200</td>
<td>REF 82-10-100</td>
</tr>
<tr>
<td>20 cmH₂O pressure relief</td>
<td>REF 80-10-306</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Without pressure relief</td>
<td>REF 80-10-301</td>
<td>REF 80-10-201</td>
<td>REF 82-10-101</td>
</tr>
</tbody>
</table>

Accessories

Reservoir Bag
For single use

<table>
<thead>
<tr>
<th>Size</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 ml</td>
<td>80-12-020</td>
<td>5</td>
</tr>
<tr>
<td>1800 ml</td>
<td>80-12-015</td>
<td>5</td>
</tr>
<tr>
<td>2600 ml</td>
<td>80-12-010</td>
<td>5</td>
</tr>
</tbody>
</table>

PEEP-Valve
Reusable, Material: PSU

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>Connection</th>
<th>Colour</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 10 cmH₂O</td>
<td>22 mm O.D.</td>
<td>Green</td>
<td>80-13-001</td>
<td>1</td>
</tr>
<tr>
<td>0 – 10 cmH₂O</td>
<td>30 mm I.D.</td>
<td>Green</td>
<td>80-13-004</td>
<td>1</td>
</tr>
<tr>
<td>0 – 20 cmH₂O</td>
<td>22 mm O.D.</td>
<td>Blue</td>
<td>80-13-005</td>
<td>1</td>
</tr>
<tr>
<td>0 – 20 cmH₂O</td>
<td>30 mm I.D.</td>
<td>Blue</td>
<td>80-13-002</td>
<td>1</td>
</tr>
</tbody>
</table>

PEEP-Adapter
22 mm I.D. – 30 mm O.D.
Reusable, Material: PSU

REF 80-13-003 | Box 1

O₂-Tubing
For single use, Material: PVC

<table>
<thead>
<tr>
<th>Length</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 cm</td>
<td>85-17-000</td>
<td>10</td>
</tr>
</tbody>
</table>

Transparent Carrying Case

Fits Resuscitation Bag

<table>
<thead>
<tr>
<th>Fits Resuscitation Bag</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant, Child</td>
<td>80-10-080</td>
<td>1</td>
</tr>
<tr>
<td>Adult</td>
<td>80-10-090</td>
<td>1</td>
</tr>
</tbody>
</table>
Resuscitation Bags

PVC Resuscitation Bags

Order information

For single use
**PVC Resuscitator Set** consisting of:

- PVC-Resuscitation Bag (40 cmH₂O pressure relief)
- Face Mask
- Reservoir Bag
- O₂-Tubing 200 cm
- PEEP-Adapter (30 mm O.D.)

---

**Infant**
Consisting of Resuscitation Bag
280 ml and face mask # 1

<table>
<thead>
<tr>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-10-399</td>
<td>1</td>
</tr>
<tr>
<td>84-10-395</td>
<td>6</td>
</tr>
</tbody>
</table>

**Child**
Consisting of Resuscitation Bag
450 ml and face mask # 3

<table>
<thead>
<tr>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-10-299</td>
<td>1</td>
</tr>
<tr>
<td>84-10-295</td>
<td>6</td>
</tr>
</tbody>
</table>

**Adult**
Consisting of Resuscitation Bag
1500 ml and face mask # 5

<table>
<thead>
<tr>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-10-199</td>
<td>1</td>
</tr>
<tr>
<td>84-10-195</td>
<td>6</td>
</tr>
</tbody>
</table>

---

**Accessories**

**PEEP-Valve**
For single use, Material: PC

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>Connection</th>
<th>Colour</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–10 cmH₂O</td>
<td>22 mm O.D.</td>
<td>Green</td>
<td>85-13-001</td>
<td>1</td>
</tr>
<tr>
<td>0–10 cmH₂O</td>
<td>30 mm I.D.</td>
<td>Green</td>
<td>85-13-004</td>
<td>1</td>
</tr>
<tr>
<td>0–20 cmH₂O</td>
<td>22 mm O.D.</td>
<td>Blue</td>
<td>85-13-005</td>
<td>1</td>
</tr>
<tr>
<td>0–20 cmH₂O</td>
<td>30 mm I.D.</td>
<td>Blue</td>
<td>85-13-002</td>
<td>1</td>
</tr>
</tbody>
</table>
Additional Products for Emergency
Manual Suction Pump

An effective and powerful manual suction pump for the quick suction of fluids from the oro- and nasopharyngeal cavities in emergency situations.

- Cost effective alternative to electrical and foot powered devices
- Portable and lightweight
- Fits easily in most bags
- Always ready for use as independent from any energy source
- Easy to squeeze with maximum performance
- Disposable collection canisters for adult and children
- Soft and atraumatic suction tips
- Valve prevents backflow of liquids to the patient
- Does not contain any ferromagnetic materials
- 15 mm I.D. connection
  - Allows connection of included suction tips
  - Allows connection of included catheter adapter for funnel shape suction catheters

Order information

Manual Suction Pump Set
With canister for adult and child, 3x suction tips (large, medium, small) and catheter adapter (for funnel shape suction catheters)

<table>
<thead>
<tr>
<th>Colour</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>30-55-500</td>
<td>10</td>
</tr>
<tr>
<td>Olive</td>
<td>30-55-501</td>
<td>10</td>
</tr>
</tbody>
</table>

Accessories

Suction Catheter
For single use

<table>
<thead>
<tr>
<th>Size</th>
<th>Fr</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>14</td>
<td>30-57-305</td>
<td>10</td>
</tr>
<tr>
<td>Medium</td>
<td>28</td>
<td>30-57-609</td>
<td>10</td>
</tr>
<tr>
<td>Large</td>
<td>36</td>
<td>30-57-812</td>
<td>10</td>
</tr>
</tbody>
</table>

Catheter Adapter
For funnel shape suction catheters
For single use

REF 30-58-060  Box 10

Suction Cap
For single use

REF 30-56-001  Box 10

Canister with Cap
For single use

<table>
<thead>
<tr>
<th>Patient</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child (50 ml)</td>
<td>30-56-050</td>
<td>10</td>
</tr>
<tr>
<td>Adult (250 ml)</td>
<td>30-56-250</td>
<td>10</td>
</tr>
</tbody>
</table>

Carry Bag
Fits pump, canisters and suction catheters

REF 30-64-000
Additional Products for Emergency

Pelvic Sling

The pneumatic Pelvic Sling provides early stabilisation of pelvic fractures at the accident scene to allow patient transport and to reduce life-threatening bleeding.

**Order information**

**Pelvic Sling**

With manometer and hand inflator

For single use

<table>
<thead>
<tr>
<th>Size</th>
<th>Patient</th>
<th>Pelvis circumference</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Junior</td>
<td>70 – 90 cm</td>
<td>34-10-006</td>
</tr>
<tr>
<td>M</td>
<td>Standard</td>
<td>90 – 110 cm</td>
<td>34-10-004</td>
</tr>
<tr>
<td>L</td>
<td>Large</td>
<td>110 – 140 cm</td>
<td>34-10-005</td>
</tr>
</tbody>
</table>
Additional Products for Emergency
Pressure Infusion Cuffs

Manual system for rapid I.V. infusion of solutions. Ideal for ambulances, operating rooms and intensive care stations.

Order information

Infusor
Transparent wrap-around design with hook, reusable

<table>
<thead>
<tr>
<th>Version</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>57-02-050</td>
<td>1</td>
</tr>
<tr>
<td>500 ml With hand inflator, stop cock and precision manometer</td>
<td>57-08-050</td>
<td>1</td>
</tr>
<tr>
<td>1000 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>57-02-100</td>
<td>1</td>
</tr>
<tr>
<td>1000 ml With hand inflator, stop cock and precision manometer</td>
<td>57-08-100</td>
<td>1</td>
</tr>
</tbody>
</table>

Pressure Infusion Cuff
Pocket design with double hook, reusable

<table>
<thead>
<tr>
<th>Version</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>58-02-050</td>
<td>1</td>
</tr>
<tr>
<td>500 ml With hand inflator, stop cock and precision manometer</td>
<td>58-08-050</td>
<td>1</td>
</tr>
<tr>
<td>1000 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>58-02-100</td>
<td>1</td>
</tr>
<tr>
<td>1000 ml With hand inflator, stop cock and precision manometer</td>
<td>58-08-100</td>
<td>1</td>
</tr>
</tbody>
</table>

Dispo Infusor
Pocket design with hanger, for single use

<table>
<thead>
<tr>
<th>Version</th>
<th>REF</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 ml With Luer Lock connection only</td>
<td>56-01-050</td>
<td>5</td>
</tr>
<tr>
<td>500 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>56-02-050</td>
<td>5</td>
</tr>
<tr>
<td>500 ml With hand inflator and stop cock</td>
<td>56-03-050</td>
<td>5</td>
</tr>
<tr>
<td>1000 ml With Luer Lock connection only</td>
<td>56-01-100</td>
<td>5</td>
</tr>
<tr>
<td>1000 ml With hand inflator, stop cock and colour coded pressure indicator</td>
<td>56-02-100</td>
<td>5</td>
</tr>
<tr>
<td>1000 ml With hand inflator and stop cock</td>
<td>56-03-100</td>
<td>5</td>
</tr>
</tbody>
</table>
Simulation is the ideal method for replicating clinical situation and contributes to improve patient care by enhancing proficiency of practitioners. VBM has developed a wide range of skill-trainers and mannequins with the highest possible fidelity to train all airway procedures.

**BILL**

- Tracheal intubation
- Supraglottic airway insertion
- Mask ventilation
- Fiberoptic bronchoscopy (if bronchial tree is connected)
- Fiberoptic intubation
- Video laryngoscopy
- Inflatable tongue for Difficult Airway simulation

Complete with base, carina with bayonet lock and carrying bag

**Bronchial tree acc. to Dr. Nakhosteen**

For connection to simulator “BILL”

**Transparent Head**

**Cross section with upper airways**

For demonstration and positioning of Laryngeal Tube LTS-D # 3, 4, in carrying bag
Airway Management Simulators

Crico-Trainer

**Crico-Trainer “Adelaide”**
For cricothyrotomy.
The special concept of skin with 2 layers is simulating the subcutaneous tissue and the cricothyroid membrane. It is designed to replicate difficult scenario thanks to the moveable chin. Complete with 5 skins

REF 30-14-700

**Crico-Trainer “Frova”**
For cricothyrotomy and percutaneous tracheostomy, complete with 10 skins and 10 tracheas

REF 30-14-000

**Crico-Trainer “Pediatric”**
Complete with 10 skins

REF 30-14-900

**Crico-Trainer “Pig”**
For fixation of a real animal trachea, complete with 10 skins

REF 30-14-500

Accessories

**Skin**
For Crico-Trainer “Frova” and “Adelaide”

REF 30-14-222 | Box 10

**Skin**
For Crico-Trainer “Pediatric”

REF 30-14-922 | Box 10

**Skin**
For Crico-Trainer “Pig” and “Adelaide”

REF 30-14-222 | Box 10

**Larynx**
For Crico-Trainer “Frova” and “Adelaide”

REF 30-14-111 | Box 1

**Trachea**
For Crico-Trainer “Frova”

REF 30-14-444 | Box 10
## Alphabatical index

### A
- Adelaide – Crico-Trainer 20
- Airway Management Simulator "BILL." 19

### B
- BILL – Airway Management Simulator 19
- Bi-Masks 11

### C
- Cricothyrotomy 7
- Crico-Trainer 20
- Cuff Manometer 5
- Cuff Pressure Gauges 5

### D
- Dispo Infusor 18

### F
- Face Masks 11
- Frova – Crico-Trainer 20

### H
- Hook ring for Face Mask 12

### I
- Infusor 18
- i-Bougie 6

### L
- Laryngeal Tubes 4
- Laryngeal Tube LTS-D 4
- LTS-D 4

### M
- Manometer – Cuff Manometer 5
- Masks 11

### O
- O₂-Tubing 14
- Oropharyngeal Airways 13

### P
- Pediatric – Crico-Trainer 20
- Pediatric Masks 11
- PEEP-Valve 14 15
- PEEP-Connector 15
- Pelvic Sling 17
- Pig – Crico-Trainer 20
- Pocket Introducer 6
- Pressure Infusion Cuffs 18
- PVC Face Masks 12
- PVC Resuscitation Bags 15
- PVC Resuscitator Set 15

### Q
- Quicktrach I 8
- Quicktrach II with Cuff 8

### R
- Reservoir Bag 14
- Resuscitation Bags 14

### S
- Scapicric 7
- S-Guide 6
- Silicone Face Masks 11
- Silicone Resuscitation Bags 14
- Simulators (Airway Management) 19
- Surgicric II, III 09

### T
- Transparent Head 19

### U
- Universal – Cuff Pressure Gauge 5
VBM Medizintechnik GmbH is a family owned business operating worldwide. We develop and produce innovative products in the area of airway management, accessories for anesthesia and intensive care medicine as well as tourniquets for surgical procedures in the bloodless field.

Our company was founded 1981 by Volker Bertram and our headquarters are located in Sulz am Neckar, Germany. Around 200 employees are working in our departments like Research and Development, Production, Quality Management, Distribution, Service and Marketing.

Our excellent service can be measured in our longtime and personal cooperation with our customers. The close contact to our suppliers and users of our products is the basis of our claim to the continual improvement of our products and the development of new solutions for your tasks. We are aware of the responsibility towards patients and users alike and we focus on the high quality of our products in our everyday work.