Tourniquet Systems
Pressure Infusion

VBM Medizintechnik GmbH
## Summary

### Tourniquets and Accessories

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Find our full range of products on www.vbm-medical.de.
Digital Tourniquets

For electricity 100-240 VAC, 50/60 Hz

Product Details

Digital Display
• Large color coded LED display is easy to read
• Precise monitoring shows actual cuff pressure

Precision Pressure Regulator
• Fast cuff inflation and deflation
• Regulator is easier to handle than touch pads
• Limits pressure to max. 600mmHg

Flush Button
• To check for bleeding
• To release drug slowly after I.V. Regional Anesthesia

Alarm System
• Visual and audible alarm to detect leaks, pressure deviations and low battery voltage

Color coded Coil Extension Hoses
• With Positive Locking Connectors (PLC)
• Easy attachment and detachment
• For safe and leak-free inflation

Automatic Timer
• Automatic time recording after cuff inflation
• Provides elapsed cuff inflation time
• Audible signal every 30 minutes

Battery Back-Up
• Long lasting Ni-MH battery

Built-in Data Port
• Supports optional printer for patient report
• Reports cuff pressure adjustments and total elapsed cuff inflation time on a self-adhesive label

Stand with basket
• Very stable
• Easy patient transport
• Roomy storage for cuffs
Product Range – Order information on page 12

**Tourniquet 8000**
with single channel

- Bloodless Field

**Tourniquet 9000**
with dual channel

- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery

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**Accessories**
for Tourniquet 8000 and 9000

- **Printer**
  complete with one roll printer labels (930/roll)
  REF 13-10-000

- **Roll printer labels**
  (930/roll)
  REF 13-10-001

- **Printer with fixation plate for stand**
  complete with one roll printer labels (930/roll)
  REF 13-10-100

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**Tourniquet 6000**
with single channel

- Bloodless Field

- low-cost alternative without battery back-up
- pressure setting with ± touch pads
- light, small, easy to use and reliable
Compressed Air Tourniquets

For central compressed air supply

Product Details

Analogic Gauges
• Calibrated and sealed to insure the exact reading every time. No need to calibrate before each use

Precision Pressure Regulator
• Fast cuff inflation and deflation
• Very precise pressure regulation
• Safety knob prevents accidental movement
• Limits pressure to max. 600mmHg

Flush Button
• To check for bleeding
• To release drug slowly after I.V. Regional Anesthesia
• To deflate in manual mode

Color Coded Coil Tubing
• Built into Tourniquet
• Leak proof
• With positive locking connectors

Manual Safety System
• No battery needed
• Maintenance free
• Pressure is maintained during power failure
• Can be used at any time without power

Timer
• Count down timer with alarm

Stand with basket
• Very stable
• Easy patient transport
• Roomy storage for cuffs

Pressure Hose
• 4m (13ft.) long, supplied with the Tourniquet
Product Range – Order information on page 12

**Tourniquet 2500**
with single channel
- Bloodless Field

**Tourniquet 2800**
with single channel and built-in pressure infusor
- Bloodless Field
- Automatic Blood-Exsanguination
- Pressure Infusion

**Tourniquet 4500**
with switch for I.V. Regional Anesthesia
- Bloodless Field
- I.V. Regional Anesthesia

**Tourniquet 5000**
with switch for I.V. Regional Anesthesia and built-in pressure infusor
- Bloodless Field
- I.V. Regional Anesthesia
- Automatic Blood-Exsanguination
- Pressure Infusion

**Tourniquet 2x500**
with dual channel
- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery

**Tourniquet 5800**
with dual channel and built-in pressure infusor
- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery
- Automatic Blood-Exsanguination
- Pressure Infusion
Electronic Tourniquets

For electricity with 230, 110 or 100 VAC

Product Details

Analogic Gauges
• Calibrated and sealed to insure the exact reading every time. No need to calibrate before each use.

Electronic Pressure Regulator
• Fast cuff inflation and deflation
• Very precise pressure regulation
• Safety knob prevents accidental movement
• Limits pressure to max. 600mmHg

Flush Button
• To check for bleeding
• To release drug slowly after I.V. Regional Anesthesia
• To deflate in manual mode

Color coded Coil Extension Hoses
• Built into Tourniquet
• Leak proof
• With positive locking connectors

Manual Safety System
• No battery needed
• Maintenance free
• Pressure is maintained during power failure
• Can be used at any time without power

Timer
• Count down timer with alarm

Stand with basket
• Very stable
• Easy patient transport
• Roomy storage for cuffs
**Product Range** – Order information on page 12

**Tourniquet 2500 ELC**
with single channel
- Bloodless Field

**Tourniquet 2800 ELC**
with single channel and built-in pressure infusor
- Bloodless Field
- Automatic Blood-Exsanguination
- Pressure Infusion

**Tourniquet 4500 ELC**
with switch for I.V. Regional Anesthesia
- Bloodless Field
- I.V. Regional Anesthesia

**Tourniquet 5000 ELC**
with switch for I.V. Regional Anesthesia and built-in pressure infusor
- Bloodless Field
- I.V. Regional Anesthesia
- Automatic Blood-Exsanguination
- Pressure Infusion

**Tourniquet 2x500 ELC**
with dual channel
- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery

**Tourniquet 5800 ELC**
with dual channel and built-in pressure infusor
- Bloodless Field
- I.V. Regional Anesthesia
- Bilateral Surgery
- Automatic Blood-Exsanguination
- Pressure Infusion
## Application Tourniquets

<table>
<thead>
<tr>
<th>Tourniquet</th>
<th>6000</th>
<th>8000</th>
<th>2500 ELC</th>
<th>2800 ELC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bloodless Field</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I.V. Regional Anesthesia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bilateral Surgery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic Blood-Exsanguination</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure Infusion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tourniquet</td>
<td>Table Unit with Carrying Handle</td>
<td>Table Unit with Carrying Handle, Stand and Basket</td>
<td>with Universal Clamp and Protection Cover</td>
<td>with Stand, Basket and Protection Cover</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>6000</td>
<td>14-12-600</td>
<td>14-22-600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8000</td>
<td>12-12-800</td>
<td>12-22-800</td>
<td>12-13-800</td>
<td></td>
</tr>
<tr>
<td>9000</td>
<td>13-12-900</td>
<td>13-22-900</td>
<td>13-13-900</td>
<td></td>
</tr>
<tr>
<td>5800</td>
<td>11-12-580</td>
<td>11-22-580</td>
<td>11-13-580</td>
<td>11-15-580</td>
</tr>
<tr>
<td>5800 ELC</td>
<td>11-12-580 ELC</td>
<td>11-22-580 ELC</td>
<td>11-13-580 ELC</td>
<td>11-15-580 ELC</td>
</tr>
</tbody>
</table>
Manual Tourniquets

Manometer 600 mmHg with Hand Inflator

- Tourniquet “Tourny I” with stainless steel buckle
  - REF 20-30-000
  - Box 20

- Tourniquet “Tourny II” with aluminum buckle
  - REF 20-32-000
  - Box 20

- Tourniquet “Tourny III” with plastic buckle
  - REF 20-30-100
  - Box 10

- Tourniquet for Child
  - elastic strap with velcro fastening
  - REF 20-30-005
  - Box 10

- Tourniquet Strap
  - elastic strap 40cm, 25 pcs perforated on one roll
  - REF 20-30-400
  - Box 1 roll
# Tourniquet Cuffs

## Product details

**Silicone Bladder**
- Silicone material is elastic and acts as a low pressure cuff (as wider the cuff as lower the inflation pressures needed)
- Durable and high quality material
- Latex free

**Cuff ties**
- Provide easy cuff positioning and security
- Color coded for identification of different sizes

**Contour cuffs**
- Ideal for extremely conical shaped limbs

**Silicone Tubing**
- Kink resistant
- Never cracks
- Latex free

**Positive locking connectors (PLC)**
- For easy attachment and detachment
- For safe and leak-free inflation

## Single Cuffs

<table>
<thead>
<tr>
<th>Patient, Size</th>
<th>Fabric Cuffs</th>
<th>Silicone Cuffs</th>
<th>Silicone/Velcro Cuffs</th>
<th>Dispo Cuff</th>
<th>Slim Cuff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant 20 cm (8&quot;)</td>
<td>20-54-700</td>
<td>—</td>
<td>20-64-700</td>
<td>20-34-700SLZ-1</td>
<td>20-74-700</td>
</tr>
<tr>
<td>Child 30 cm (12&quot;)</td>
<td>20-54-710</td>
<td>20-94-710</td>
<td>20-64-710</td>
<td>20-34-710SLZ-1</td>
<td>20-74-710</td>
</tr>
<tr>
<td>Arm 35 cm (14&quot;)</td>
<td>20-54-711</td>
<td>20-94-711</td>
<td>20-64-711</td>
<td>20-34-711SLZ-1</td>
<td>20-74-711</td>
</tr>
<tr>
<td>Arm, 46 cm (18&quot;)</td>
<td>20-54-712</td>
<td>20-94-712</td>
<td>20-64-712</td>
<td>20-34-712SLZ-1</td>
<td>20-74-712</td>
</tr>
<tr>
<td>Lower Leg 46 cm (18&quot;)</td>
<td>20-54-512 contour</td>
<td>—</td>
<td>—</td>
<td>20-34-715SLZ-1 contour</td>
<td>20-74-715 contour</td>
</tr>
<tr>
<td>Leg 76 cm (30&quot;)</td>
<td>straight 20-54-727 contour 20-54-527</td>
<td>20-94-727</td>
<td>20-64-727</td>
<td>20-34-727SLZ-1 contour</td>
<td>20-74-727 contour</td>
</tr>
<tr>
<td>Leg 86 cm (34&quot;)</td>
<td>straight 20-54-728 contour 20-54-528</td>
<td>20-94-728</td>
<td>20-64-728</td>
<td>20-34-728SLZ-1 contour</td>
<td>20-74-728 contour</td>
</tr>
<tr>
<td>Leg 107 cm (42&quot;)</td>
<td>20-54-729</td>
<td>20-94-729</td>
<td>20-64-729</td>
<td>20-34-729SLZ-1 contour</td>
<td>20-74-729 contour</td>
</tr>
</tbody>
</table>

## Specifications

- **Silicone Cuffs**
  - Autoclavable at 134°C (273°F)
  - Easy to clean and dry quickly

- **Silicone/Velcro Cuffs**
  - Autoclavable at 134°C (273°F)
  - Velcro sleeve can be replaced
  - Easy to clean and dry quickly

- **Dispo Cuff**
  - Disposable, sterile peel pouch
  - Low profile, welded cuff (no bladder)
  - Eliminate risk of cross contamination

- **Slim Cuff**
  - Washable at 60°C
  - Low profile, welded cuff (no bladder)
### Plastic Cover

**Tourniquet Cuff Protector**

The plastic covers keep the cuff free from soiling and allow sealing the cuff with adhesive tape without damaging the cuff.

<table>
<thead>
<tr>
<th>REF</th>
<th>Size</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-11-111</td>
<td>small</td>
<td>50</td>
</tr>
<tr>
<td>20-11-111-1</td>
<td>ditto</td>
<td>50</td>
</tr>
<tr>
<td>20-11-333</td>
<td>medium</td>
<td>50</td>
</tr>
<tr>
<td>20-11-333-1</td>
<td>ditto</td>
<td>50</td>
</tr>
<tr>
<td>20-11-222</td>
<td>large</td>
<td>50</td>
</tr>
<tr>
<td>20-11-222-1</td>
<td>ditto</td>
<td>50</td>
</tr>
</tbody>
</table>

### Measuring Tape

Color coded, for easy identification of patient extremity and cuff size, reusable

- **Box 10** REF 20-95-111
- **ditto but for single use** (Box of 1 block with 50 tapes) REF 20-95-222

### Double Cuffs

<table>
<thead>
<tr>
<th>Patient, Size</th>
<th>Fabric Cuffs</th>
<th>Silicone Cuffs</th>
<th>Silicone/Velcro Cuffs</th>
<th>Dispo Cuff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infant</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 cm (8&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-50-700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Child</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 cm (12&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-50-710</td>
<td></td>
<td>20-90-710</td>
<td>20-60-710</td>
<td>20-30-710SLZ-1</td>
</tr>
<tr>
<td><strong>Arm</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 cm (14&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-50-711</td>
<td></td>
<td>20-90-711</td>
<td>20-60-711</td>
<td></td>
</tr>
<tr>
<td><strong>Arm, 46 cm(18&quot;)</strong></td>
<td>20-50-712</td>
<td>20-90-712</td>
<td>20-60-712</td>
<td>20-30-712SLZ-1</td>
</tr>
<tr>
<td><strong>Leg</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>61 cm (24&quot;)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>20-50-722</td>
<td></td>
<td>20-90-722</td>
<td>20-60-722</td>
<td>20-30-722SLZ-1</td>
</tr>
<tr>
<td><strong>Leg</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>76 cm (30&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-50-727</td>
<td></td>
<td></td>
<td>20-60-727</td>
<td></td>
</tr>
<tr>
<td><strong>Leg</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>86 cm (34&quot;)</td>
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<td></td>
</tr>
<tr>
<td>20-50-728</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Leg</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107 cm (42&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-50-729</td>
<td></td>
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</tr>
</tbody>
</table>
Blood Exsanguination

Roll-On Cuffs

- Exsanguinator allows fast and easy blood exsanguination within seconds (as alternative to Esmarch Bandage)
- Material: Silicone, transparent
- Reusable, autoclavable up to 134°C (273°F)
- Latex free

<table>
<thead>
<tr>
<th>Size</th>
<th>Color code</th>
<th>Patient limb</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>grey</td>
<td>16-21 cm</td>
<td>6”-8”</td>
</tr>
<tr>
<td>1</td>
<td>white</td>
<td>20-28 cm</td>
<td>8”-11”</td>
</tr>
<tr>
<td>2</td>
<td>light-blue</td>
<td>26-33 cm</td>
<td>10”-13”</td>
</tr>
<tr>
<td>3</td>
<td>yellow</td>
<td>31-40 cm</td>
<td>12”-16”</td>
</tr>
<tr>
<td>4</td>
<td>red</td>
<td>38-49 cm</td>
<td>15”-19”</td>
</tr>
<tr>
<td>5</td>
<td>green</td>
<td>47-60 cm</td>
<td>18”-23”</td>
</tr>
<tr>
<td>6</td>
<td>dark-blue</td>
<td>58-70 cm</td>
<td>23”-28”</td>
</tr>
</tbody>
</table>

Handpump
with manometer and 1 m (40”) connecting tube
REF 21-95-350

Manometer
with 1 m (40”) connecting tube
REF 21-95-300

Measuring Tape
color coded, for easy identification of patient extremity and cuff size
REF 21-95-111

Brake-Block
made of Silicone, autoclavable up to 134°C (273°F)
small size REF 21-95-200
large size REF 21-95-201

Roll-On Cuff Set
small sizes complete case with Roll-On Cuff # 1-4, manometer with connecting tube, tape-measure, brake-block small and large
REF 21-95-400

Roll-On Cuff Set
large sizes complete case with Roll-On Cuff # 3-6, handpump with manometer and connecting tube, tape-measure, brake-block small and large
REF 21-95-401
Three Chamber Bloodexsanguination Garment

**Automatic exsanguination for use with VBM Tourniquets 2800, 5000 and 5800**

Due to the Three Chamber-System the garment is inflated automatically from distal to proximal.

With the 3 position zipper the garment can be adjusted to fit different size extremities for efficient exsanguination of the patient’s limb. Sleeve and bladder are exchangeable and available as spare parts.
Pressure Infusors
Pressure Infusion Cuffs
Automatic Pressure Infusors

For irrigation e.g. during Arthroscopy, Laparoscopy and Hysteroscopy

Product Details

Precision Pressure Regulator
- Very precise pressure regulation
- Maintains selected pressure and guarantees automatic compensation
- Limits pressure to max. 300 mmHg

Protection Cover
- Protects the device from liquid and damage

Coil Tubing
- Built into Pressure Infusor
- Leak proof
- With male Luer Lock Connector

Universal Clamp
- Horizontal or vertical position for attachment to drip stand or rail

Pressure Infusor 100
with single channel
for compressed air

Supplied with 4 m (13ft.) pressure hose
With universal clamp: REF 52-13-100
With universal clamp and stand: REF 52-15-100

Pressure Infusor 200
with switch for the connection of two Pressure Infusion Cuffs
for compressed air

Supplied with 4 m (13ft.) pressure hose
With universal clamp: REF 52-13-200
With universal clamp and stand: REF 52-15-200

Pressure Infusor 200 ELC
with switch for the connection of two Pressure Infusion Cuffs
for electricity, available in 230, 110 or 100 VAC

With universal clamp: REF 52-13-200 ELC
With universal clamp and stand: REF 52-15-200 ELC
Pressure Infusion Cuffs

500 ml and 1000 ml
Manual system for rapid pressure infusion and irrigation purposes. Ideal for ambulances, operation rooms and intensive care stations.

500 ml
- reusable
- with hand inflator: REF 51-05-050
- with hand inflator and manometer: REF 51-06-050
- with hand inflator and manometer (shock resistant precision manometer): REF 51-08-050

1000 ml
- pocket design with zip, reusable
- with hand inflator: REF 52-05-100
- with hand inflator and manometer: REF 52-06-100
- with hand inflator and manometer (shock resistant precision manometer): REF 52-08-100

VBM Infusor
transparent Pressure Infusion Cuff
Wrap-Around Design, reusable

500 ml
- with hand inflator and color coded pressure gauge: REF 57-02-050
- with hand inflator and fixed manometer: REF 57-06-050
- with hand inflator and manometer (shock resistant precision manometer): REF 57-08-050
1000 ml
wrap around design, reusable
with hand inflator
with hand inflator and manometer
with hand inflator and manometer
(shock resistant precision manometer)

for single patient use

500 ml
with hand inflator and pressure indicator
with hand inflator

500 ml
with hand inflator and pressure indicator

1000 ml
with hand inflator and pressure indicator
with hand inflator

VBM Infusor
transparent Pressure Infusion Cuff
Wrap-Around Design, reusable

1000 ml
with hand inflator and color coded pressure gauge
with hand inflator and fixed manometer
with hand inflator and manometer
(shock resistant precision manometer)
Pressure Infusion Cuffs

1500 ml, 3000 ml and 5000 ml
For irrigation purposes e.g. during Arthroscopy, Laparoscopy and Hysteroscopy

1500 ml
pocket design with zip, reusable
with female Luer Lock
      REF  52-01-150
with hand inflator and manometer,
  (shock resistant precision manometer)
      52-08-150
with handpump and manometer
  (shock resistant precision manometer)
      52-30-150

3000 ml
pocket design with zip, reusable
with female Luer Lock
      REF  52-01-300
with hand inflator and manometer,
  (shock resistant precision manometer)
      52-08-300
with handpump and manometer,
  (shock resistant precision manometer)
      52-30-300

5000 ml
pocket design with zip, reusable
with female Luer Lock
      REF  52-01-500
with hand inflator and manometer,
  (shock resistant precision manometer)
      52-08-500
with handpump and manometer,
  (shock resistant precision manometer)
      52-30-500
Accessories for Pressure Infusion Cuffs

**Manometer 300 mmHg**
- shock resistant
  - REF 34-17-300
- with hand inflator and release valve
  - REF 20-18-300

**Manometer 300 mmHg**
- REF 20-16-300

**Manometer 300 mmHg**
- shock resistant
  - REF 34-17-300
- with hand inflator, release valve and male Luer Lock
  - REF 51-09-666

**Handpump**
- with release valve and male Luer Lock
  - REF 51-30-000

**Foot Pump**
- with 2 m (79") silicone hose, release valve and male Luer Lock
  - REF 51-20-000

**Hand Inflator**
- with pressure indicator, three-way stop cock and male Luer Lock
  - REF 51-02-666

**Hand Inflator**
- with three-way stop cock and male Luer Lock
  - REF 51-03-666

**Three-way stop cock**
- with two male and one female Luer Lock
  - REF 51-02-000
VBM Medizintechnik GmbH
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