

Digital Pneumatic Tourniquet system

# DTS-3000

## CUFF USER MANUAL



## 1. Intended use

Tourniquet cuffs intended to occlude the blood flow to obtain hemostasis field during limb surgery.

## 2. Warning



Caution

- Check the device and its parts on a regular basis.
- Do not keep out of heat sources including heaters or direct sunlight. It may cause breakdown, distortion or fire.
- Be cautious to prevent any sharp objects around including scissors from making a hole in a cuff or an air hose. The damage of an air chamber in a cuff or an air hose may cause improper operation of this device.
- Do not make oil, benzene, alcohol, gasoline or chemicals touch a cuff. It may reduce the durability of a cuff.

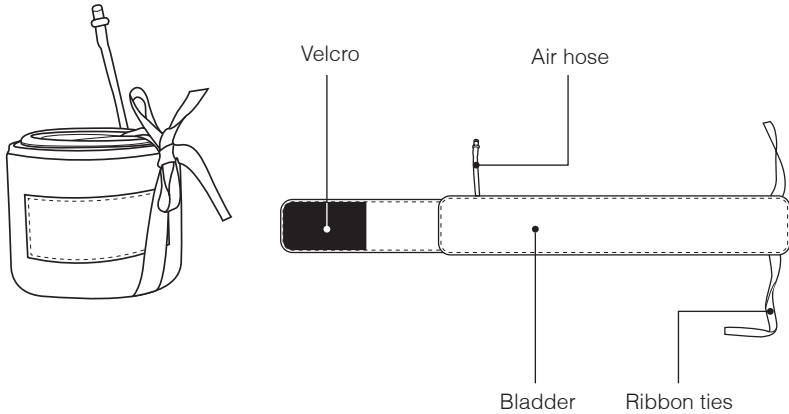


Prohibition

- Do not inflate a cuff without putting it on body except the tests. It may damage a cuff or reduce its durability.
- Do not inflate a cuff with any other objects except this device. It may break down or damage a cuff.

### 3. Cuff Description

#### 3-1. Cuff Appearance explanation (Cuff picture and name)



#### 3-2. Features of the cuff

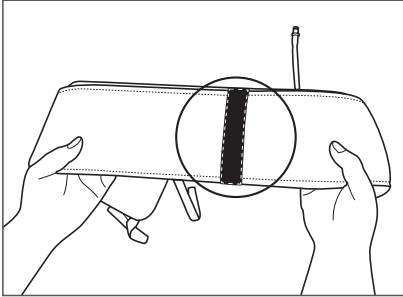
- As the elastic bladder guarantees the transmission of pressure to deeper tissue, the bladder can be inflated easily by lower pressure.

(Please refer to general pressure used normally in hospitals. Normal Max. Pressure value is 300mmHg for adult's arm, 400mmHg for adult's leg, 200mmHg for child's arm and 300mmHg for a child's leg but the pressure setting value can be adjusted according to a patient's age, sex, weight, size... etc..)

- In the case of quality test of cuffs, we test each cuff under 600mmHg.

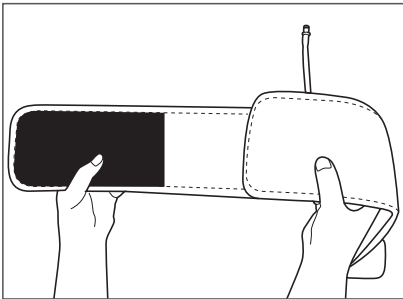
## 4. How to wear cuff

### 4-1. Cautions before wearing the cuff.



Check whether the Velcro part is inserted properly into the fixing belt.

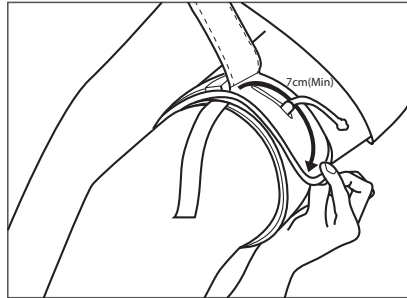
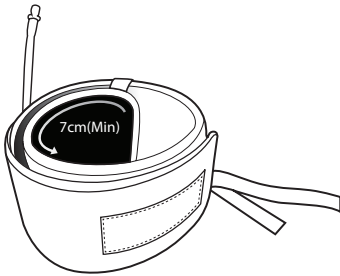
Pinching may occur if the Velcro is attached to the bladder part.



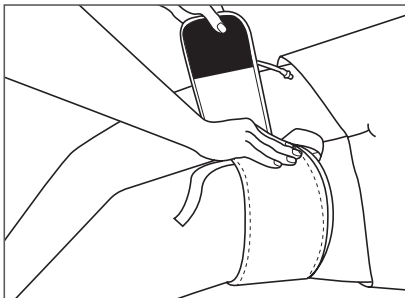
Check a Velcro to be attached to inner part of a cuff when a cuff is spread out.

### 4-2. How to wear cuff.

- Select a suitable cuff by considering on a patient's application area and operation time.
- Double cuff can be recommended if operation time is more than 1 hour and should be selected to minimize blood vessel and skin damage in case of operation over 2 hours.
- Cone cuff should be selected if difference between the distal and proximal cuff edges of the patient's wear area is big.



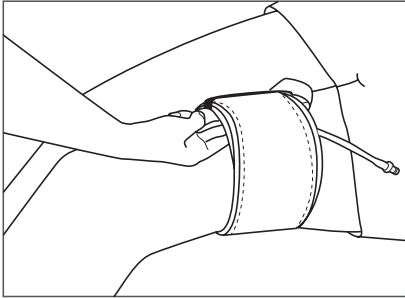
- The cuff should be overlapped at least 7cm (3inches) when a cuff is wrapped on the part requiring homeostasis.
- The width of the cuff should be individualized and wider than half of the limb's diameter.
- The cuff should be wrapped on the most muscular and wide body part proximally(near the heart) as possible to minimize the damage of blood vessels, nerves and skin.
- Position the cuff hose(tube) upwards when a cuff is wrapped on a limb.



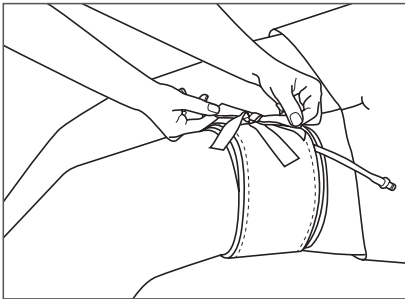
Attach the cuff part with a ribbon on the proper area as the starting point, and then wind it tightly as far as just two fingers can be input inside of the cuff.

**\*If there is space between the layers, pinch may occur in the cuff.**

### 4-3. Cautions after wearing calf.

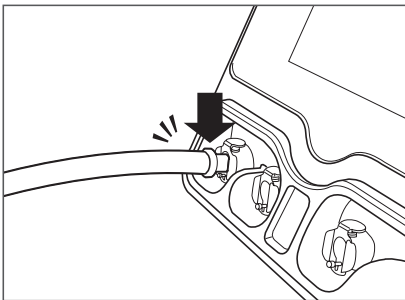


After putting the cuff, make sure that you can insert two fingers between the skin and the bladder.

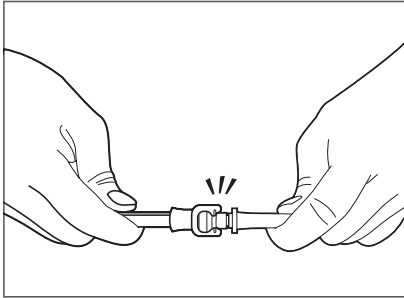


Cuff should be aligned with ribbon ties not to be twisted or bounced out during inflation.

### 4-4. How to connect the device and cuff



Connect the air hose to the desired channel of the device so that it makes a "crackle" sound.



Connect the other end of the air hose to the cuff that you want to use to make a "click" sound.

## 5. How to clean after use

### 5-1. Regular cuff

- Before cleaning the cuff, thoroughly deflate the air to the bladder.
- In the case of cleaning whole cuff including outer fabric part and inner bladder, we recommend cleaning each part separately.  
Cleaning can be brushed with mild soap-suds and rinsed with warm water.
- Do not wipe up the cuff with benzene, thinner or alcohol.
- In addition to this it is possible to wash them at 60°C with commercially available soapsuds in washing machines, however do not use the spin-dry type of an electronic machine.
- If the cuff is not completely dried , its durability may deteriorate or the cuff may deform.
- Please let the cuff dry naturally by hanging them after cleaning.

### 5-2. Autoclavable cuff

- Before cleaning the cuff, thoroughly deflate the air to the bladder.
- Repeated high-pressure steam sterilization accelerates the aging process of the cuff.
- In addition to this the reusability of the cuffs after sterilization depends strongly on a careful preparation. This means that residues of the cleaning and disinfecting agents use have to be eliminated by thorough rinsing with distilled water before autoclaving the cuffs.

## 6. Cuff specifications

Part no.	Bladder size	Shape	Recommended size
DTC-S02	40 X 7 cm	SINGLE	< 33cm (13")
DTC-D04	57 X 10 cm	DOUBLE	< 50cm (19.7")
DTC-S04	52 X 7.5 cm	SINGLE	< 45cm (17.7")
DTC-D07	57 X 15 cm	DOUBLE	< 50cm (19.7")
DTC-S05	61 X 9 cm	SINGLE	< 54cm (21")
DTC-S06	80 X 9 cm	SINGLE	< 73cm (28.7")
DTC-S07	86 X 10 cm	SINGLE	< 79cm (31.1")
DTC-S08	107 X 10 cm	SINGLE	< 100cm (39.4")
DTC-D05	80 X 15 cm	DOUBLE	< 73cm (28.7")
DTC-D06	107 X 10 cm	DOUBLE	< 100cm (39.4")
DTC-C25	70 X 10 cm	CONE SINGLE	< 63cm (24.8")
DTC-CD25	70 X 10 cm	CONE DOUBLE	< 63cm (24.8")
DTC-C26	90 X 12 cm	CONE SINGLE	< 83cm (32.7")
DTC-CD26	90 X 12 cm	CONE DOUBLE	< 83cm (32.7")
DTC-C27	107 X 14 cm	CONE SINGLE	< 100cm (39.4")
DTC-CD27	107 X 14 cm	CONE DOUBLE	< 100cm (39.4")



Part no.	Bladder size	Silicon bladder	Recommended size
DTC-SA01	30 X 11 cm	SINGLE	< 23cm (9.1")
DTC-SA02	46 X 11 cm	SINGLE	< 39cm (15.4")
DTC-SA05	61 X 11 cm	SINGLE	< 54cm (21.3")
DTC-SA06	76 X 11 cm	SINGLE	< 69cm (27.27")
DTC-SA07	86 X 11 cm	SINGLE	< 89cm (35")

Memo

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## History & Certificates

- 2015 The 8th medical devices day president award to industrial company
- 2014 Commissioned member of INNO-BIZ  
Korean world-class product award 2014  
in recognition of DVT prevention system
- 2013 Commissioned member of the Ministry of  
Trade Industry Energy planning committee
- 2013 Consultant of National Unification Advisory Council
- 2013 Member of Trade Industry Forum
- 2011 President Award
- 2010 Anvisa in Brazil
- 2007 Authentication of Merit certificate
- 2006 Innovation management awards
- 2006 KOTRA B2B e-Trade awards
- 2006 KFDA awards by Prime minister
- 2006 KGMP registration
- 2004 The 34 precious Technique bronze awards
- 2004 Korean World class products award
- 2004 Vice president award
- 2004 SFDA in China
- 2003 Success Design product
- 2002 ISO9001/EN13485
- 2002 CE marks (DL series, MK series, DL1200, DVT-2600)
- 1986 DS MAREF established

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